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RADC-TR-76-186, Vol II, Pt 2 Final Technical Report June 1976



ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING (Computer Program Flow Charts)

General Dynamics



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Laboratory Directors' Fund Number 01707310 with Proj. 6512 funds added.

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This report contains a large percentage of machine-produced copy which is not of the highest printing quality but because of economical consideration, it was determined in the best interest of the government that they be used in this publication.

This report contains Vol I, Pt 1 (Sections 1-7 and 9-10) (Pages 1-1 thru 1-5, 2-1 thru 2-24, 3-1 thru 3-35, 4-1 thru 4-23, 5-1 thru 5-6, 6-1 thru 6-39, 7-1 thru 7-30, 9-1 thru 9-3 and 10-1 thru 10-2).

Vol I, Pt 2 contains Section 8 (Pages 8-1 thru 8-174).

Vol I, Pt 3 contains Section 8 (Pages 8-175 thru 8-418).

Vol II, Pt 1 contains(Sections 1-8 and 10 & 11) (Pages 1-1, 2-1 thru 2-24, 3-1 thru 3-15, 4-1 thru 4-137, 5-1 thru 5-16, 6-1 thru 6-44, 7-1, 8-1 thru 8-26, 10-1 thru 10-4 and 11-1 thru 11-2).

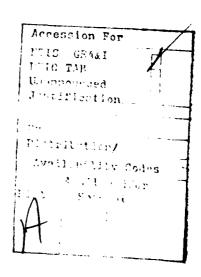
Vol II, Pt 2 contains Sections 9 and 10 (Pages 9-1 thru 9-234 and Pages 10-1 thru 10-4).

Vol III contains Sections 1 thru 6 (Pages 1-1 thru 1-2, 2-1 thru 2-22, 3-1 thru 3-53, 4-1 thru 4-141, 5-1 thru 5-3 and 6-1).

Vol IV, Pt 1 contains Appendices A-K and Appendix M.

Vol IV, Pt 2 contains Appendix L.

This software has been updated & changes
are being made under existing RADC contracts



# 

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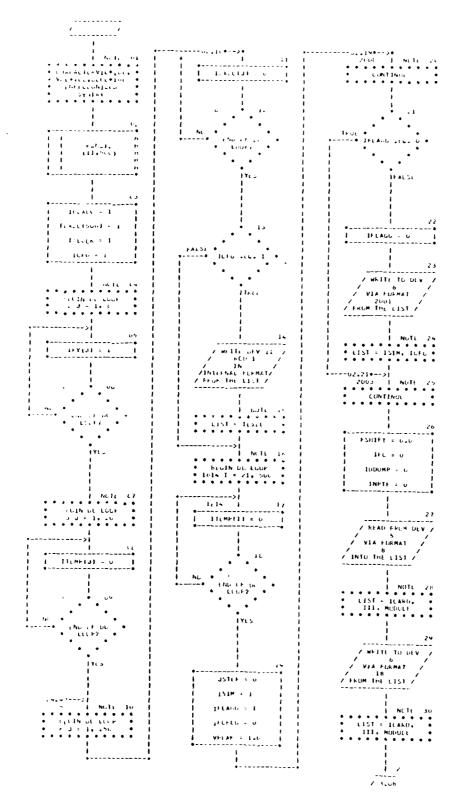
# SECTION 9

# RADSIM COMPUTER PROGRAM

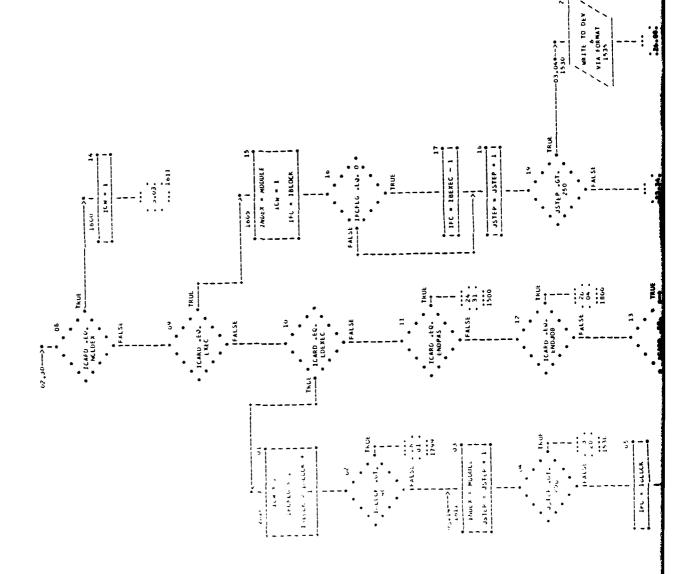
# FLOW CHARTS

This section includes the flow charts and cross references tables for all the modules of the radar simulation model.

Note that the page numbers referred to in the flow charts at various entry and exit points are those page numbers located in the upper right hand corner. These page numbers along with the box numbers are also referred to in the cross reference tables.



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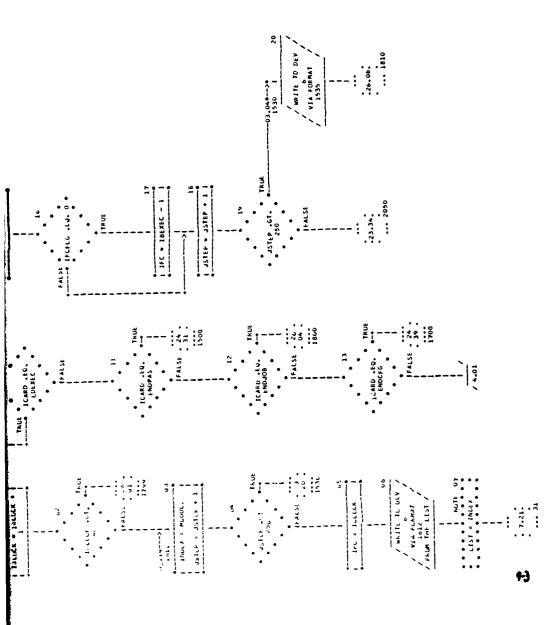


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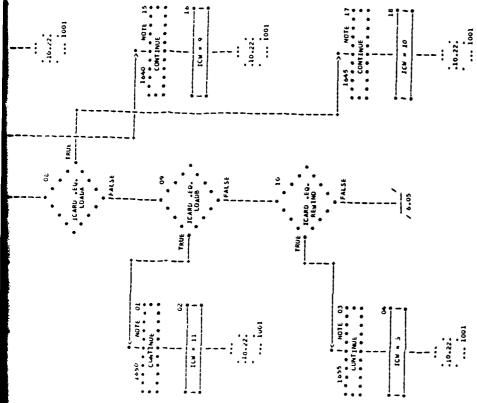
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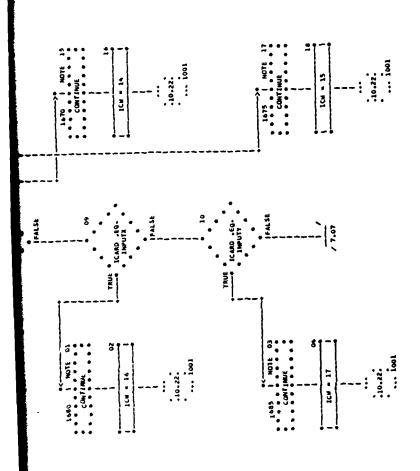
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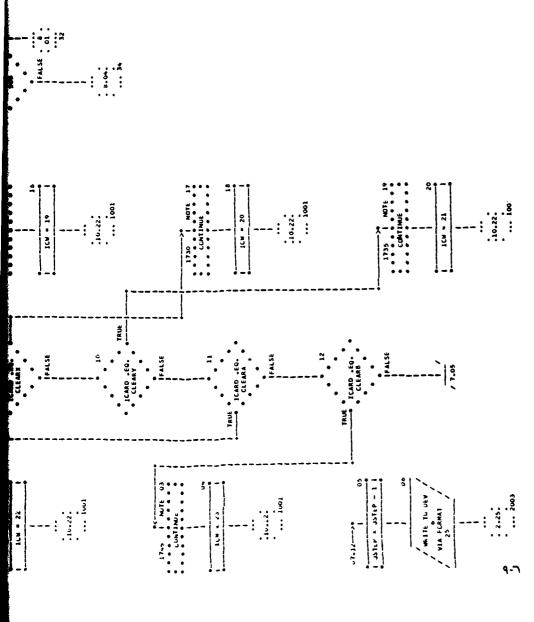
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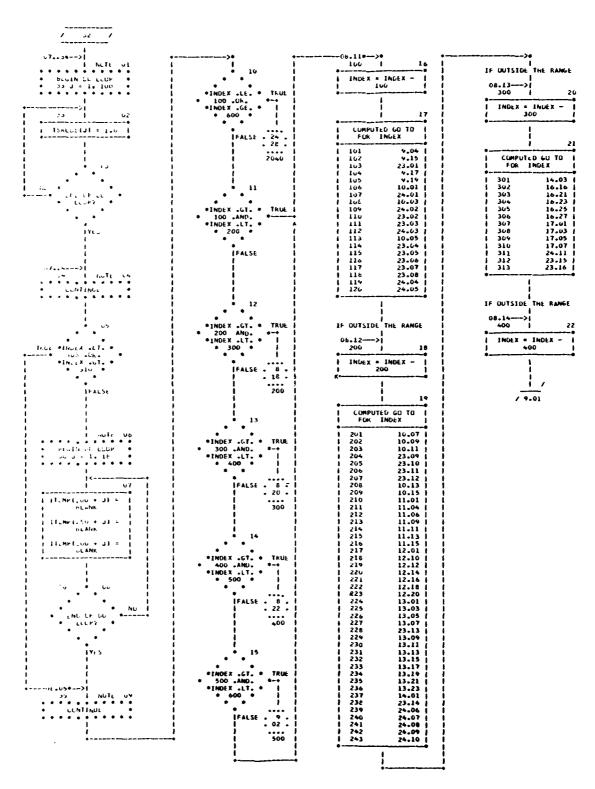


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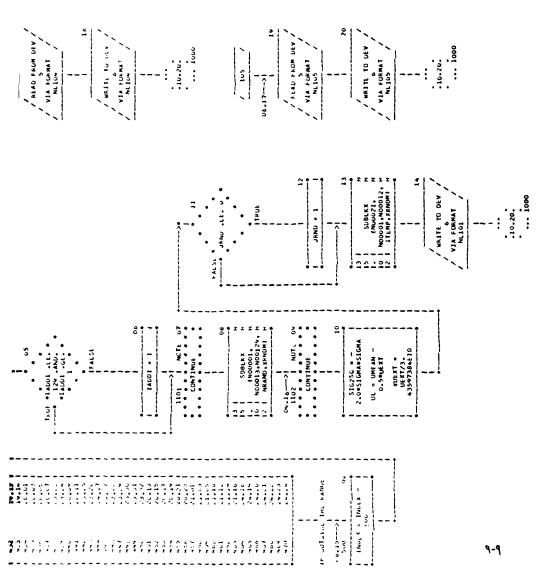
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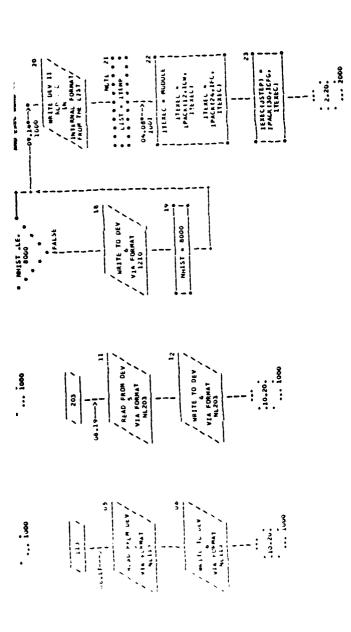
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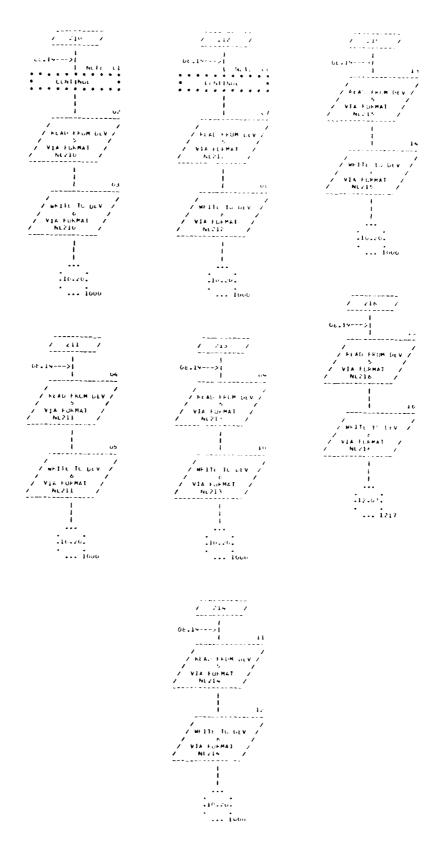


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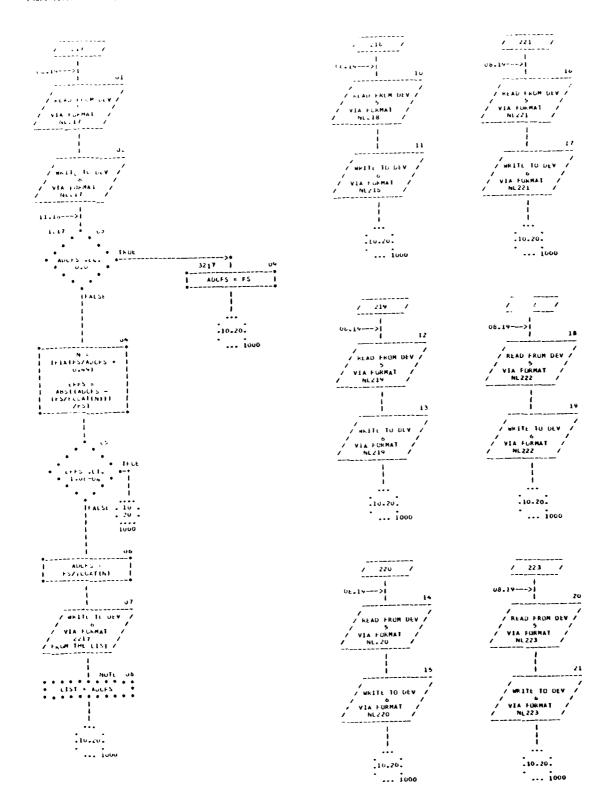
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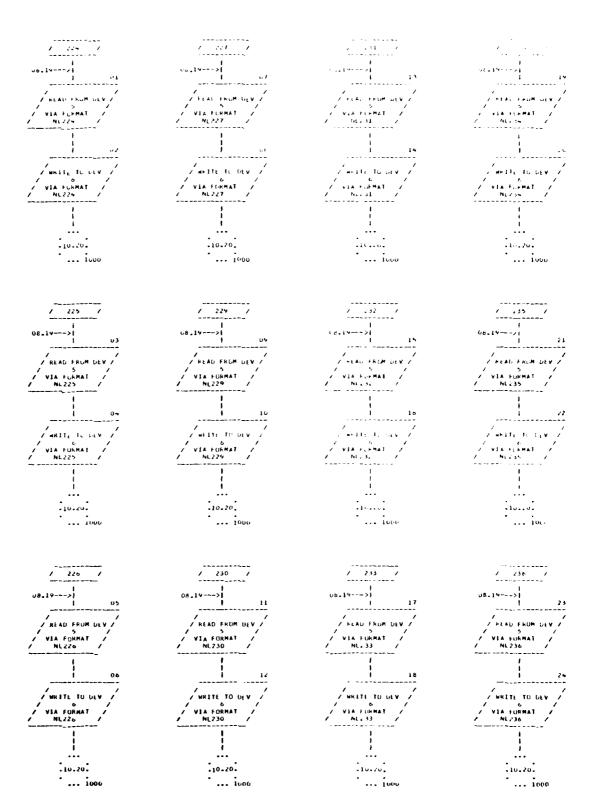




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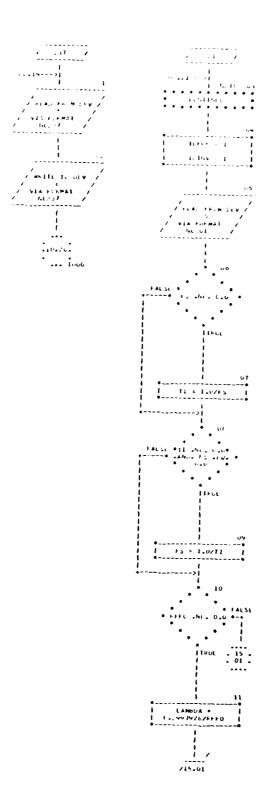


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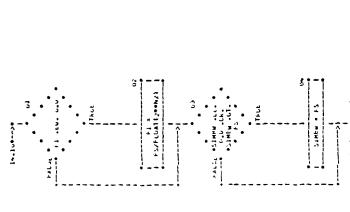


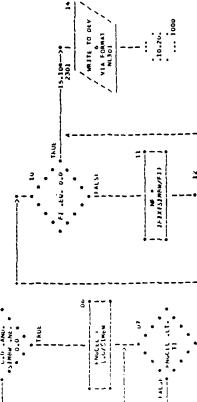
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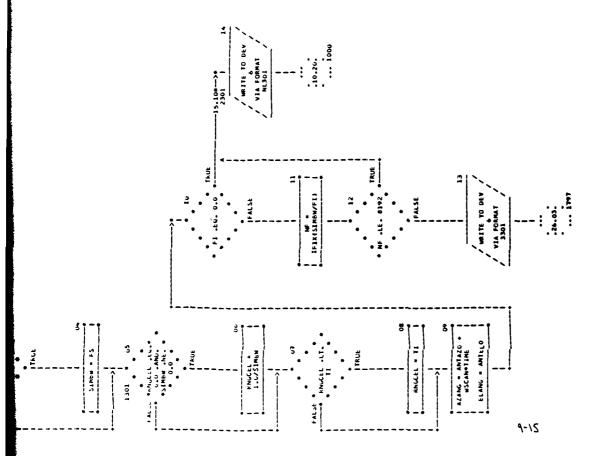
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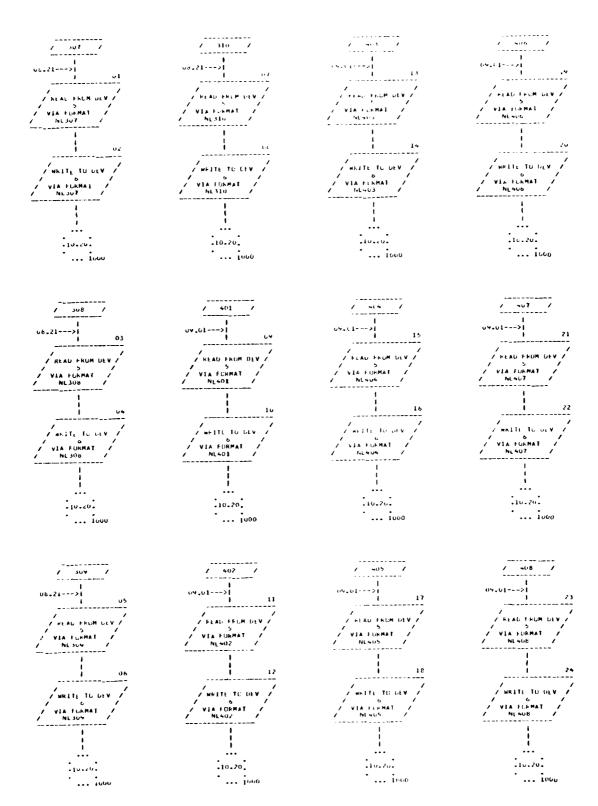


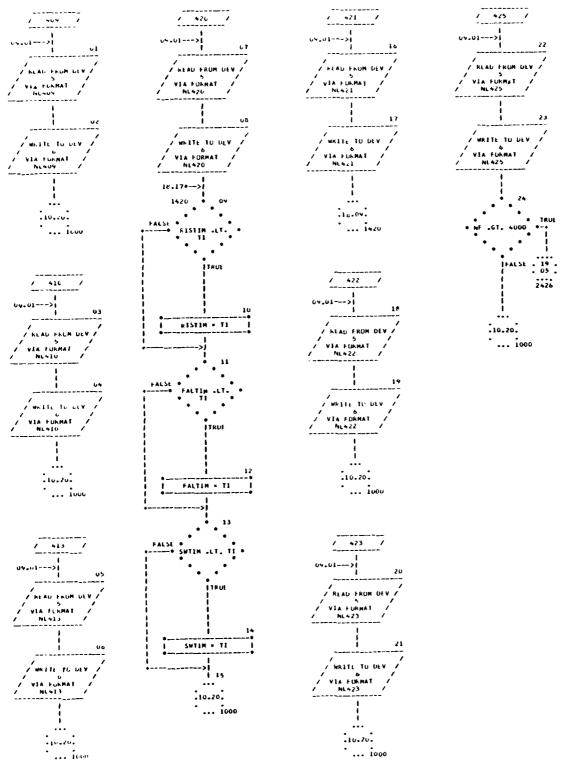


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CHAKT TITLE - PROCEDURES

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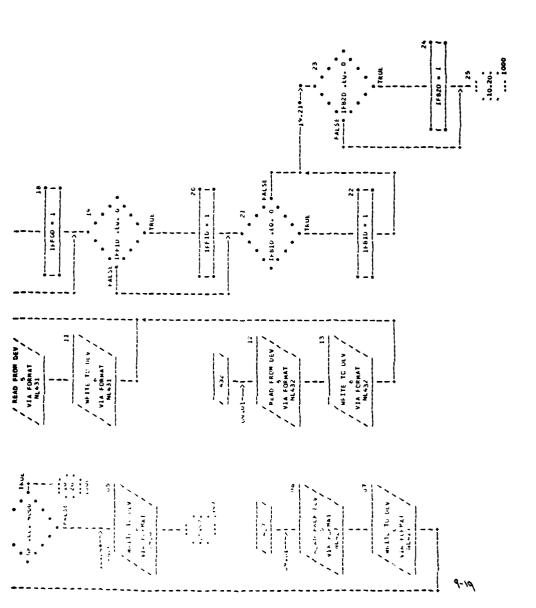
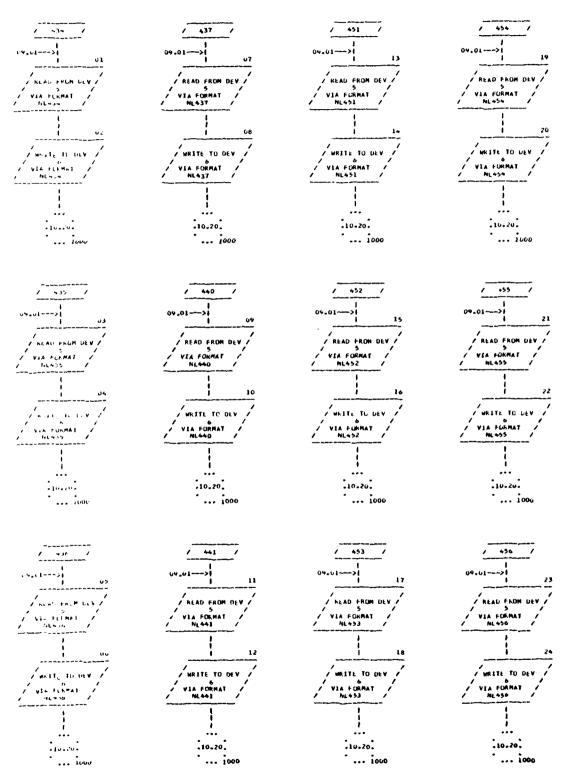
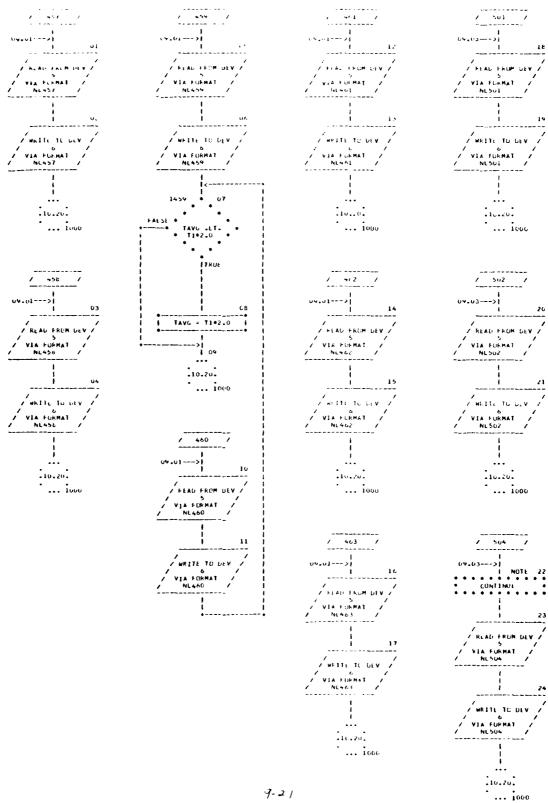
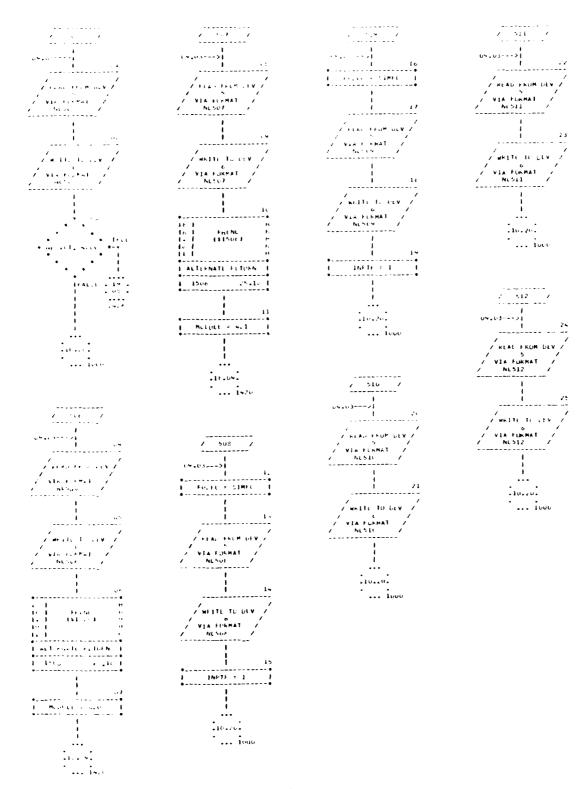


CHART TITLE - PRUCEDURES



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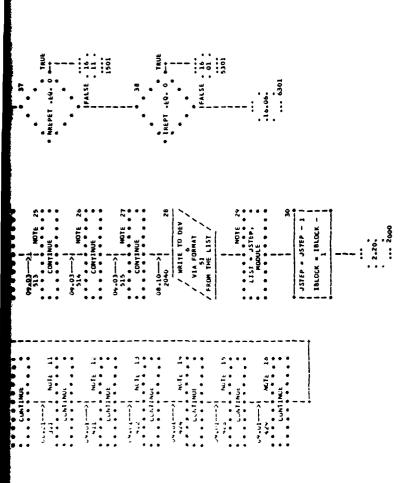


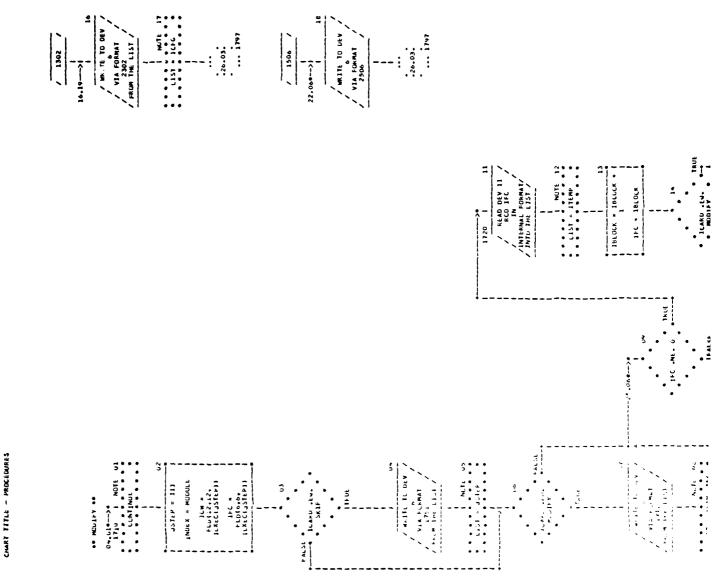
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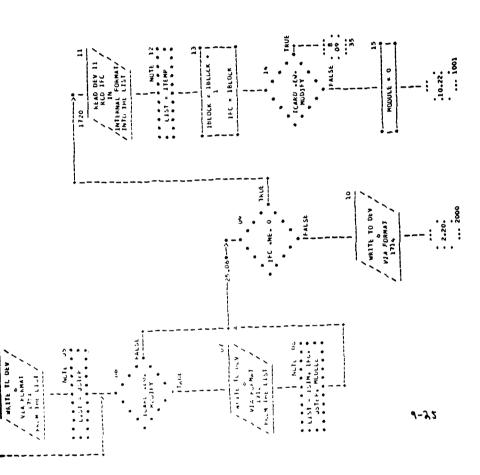
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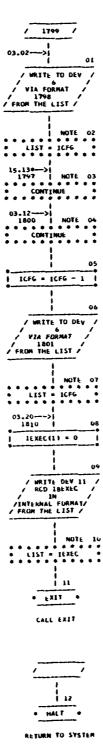




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CHART TITLE - PROCEDURES



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## CHART TITLE - NON-PHOLESCHAL STATEMENTS

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## CHART IITLE - NON-FROCEDURAL STATEMENTS

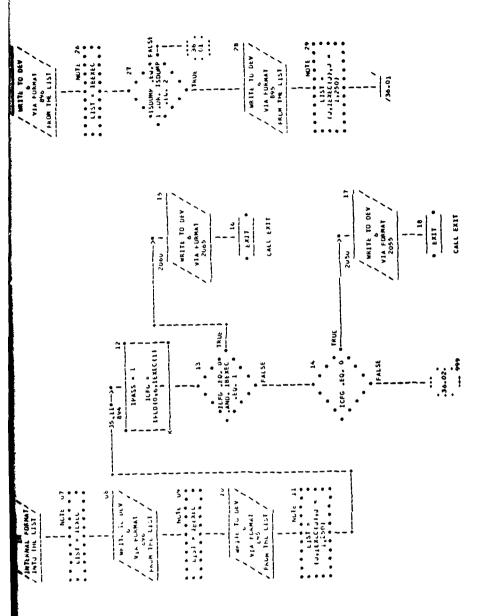
| FURMAT(** STEP NUMBER*,13,* WILL BE BYPASSED FOR KEMAINDER*,  ** JF THIS CONFIGURATION*)  1712 FORMAT(1H ,*MOD FOR PASS NUMBER*,13,* DATA BLCCK*,13,* FUR J  DD STEF*,14,* CALLING MODULE*,14,* IS TO BE MODIFIED* )  1714 FURMAT(** IBLOCK = O MODIFICATION NOT PERFORMED.* )  2302 FORMAT(** IBLOCK = O MODIFICATION NOT PERFORMED.* )  CEEDING*,15,* WILL BE EXECUTED*)  2506 FURMAT(** NON-STANDARD RETURN FROM PHENCPRECEEDING  CONFIGURATIONS WILL BE EXECUTED*) | 1798 FURMATI * THE NUMBER OF DATA BLUCKS TO BE LUADED EXCEEDS SICRAGE A VAILABLETHE CONFIGURATIONS PRECEEDING*,15, * WILL BE EXECUTED* | 1801 FURMATITHG. THE DATA LOAD FOR. 13. CONFIGURATIONS HAS BEEN COMPLE |
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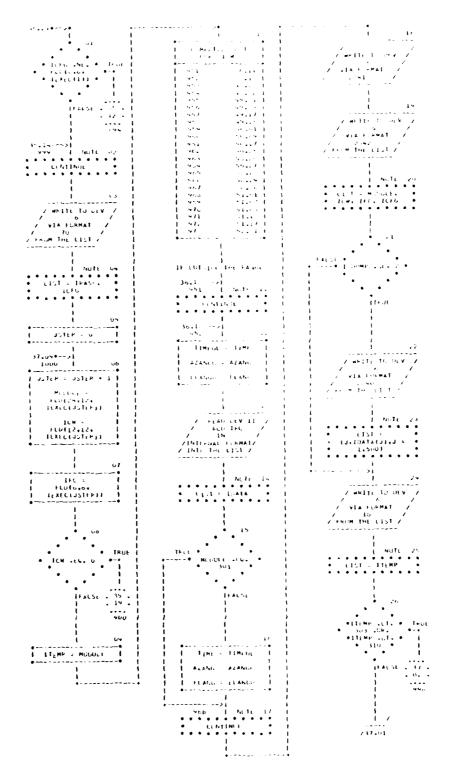
06711/15 CMMT 111te - PROCEDURES

| 36.08 ->  MOTE 19<br>CONTINUE 0<br>WRITE TO DEV / VA LUKHAT / 11<br>/ REW THE LIST /   | WOTE 21   | MOTE 24 LIST - 128.C LIST - 128.C  VIA FURMA!  FROM THE LIST  MUTE 26  1157 - 268.6C | 1SUMP the FALSE 1-OK. 1SOMP 1-OK. 2 1-OK. 2 1-OK. 2 1-OK. 3 1- |
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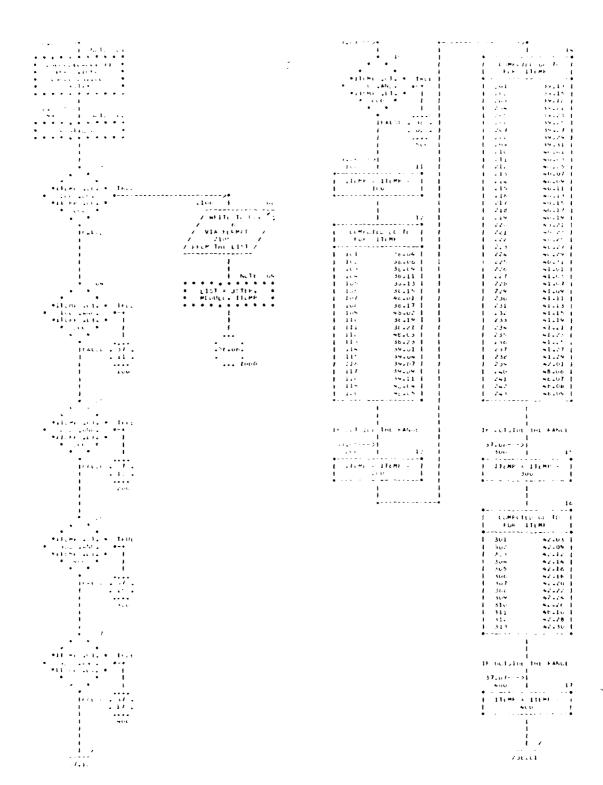


CHART TITLE - PROCEDURES

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| 37.12—>  17   17   17   17   17   17   17   17   | 37.12—>  110   19   19   19   19   19   19   19   |  | 37.12-> <br>  37.12-> <br>  17.1<br>  13.1   KIUPH2   H<br>  1.0   (XI.VIT.XA.XB)   H<br>  1.1   (XI.VIT.XA.XB)   H<br>  1.1   (XI.VIT.XA.XB)   H           | 30.00.                                  | , till , |
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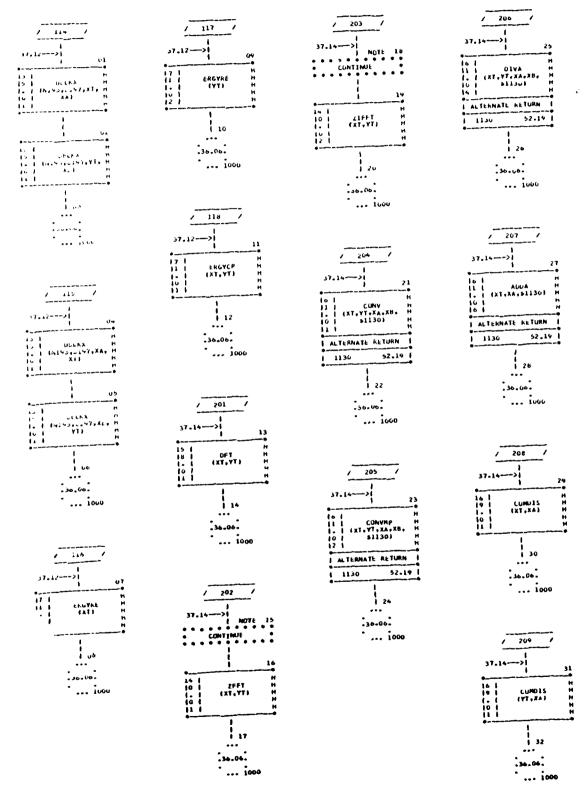
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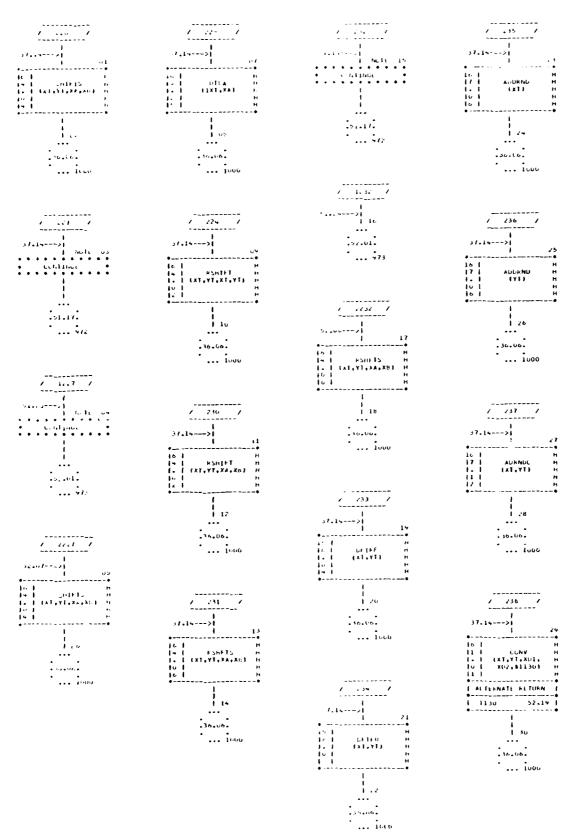
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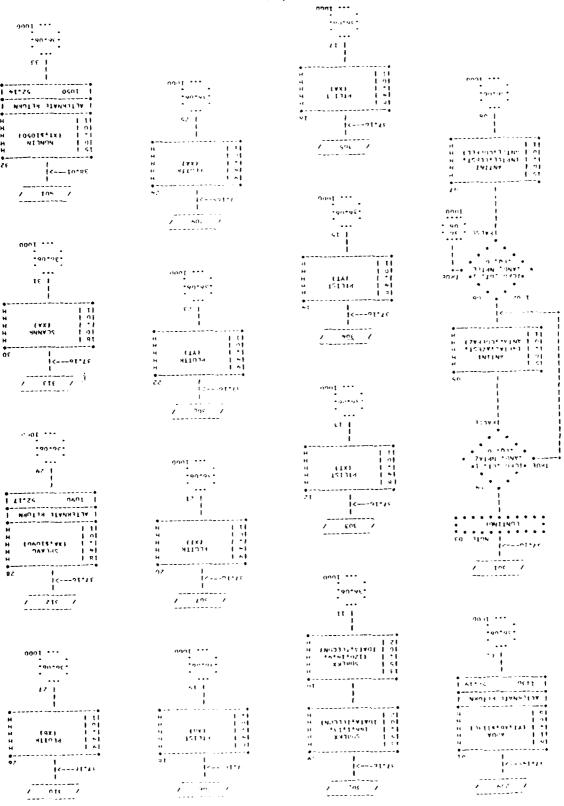
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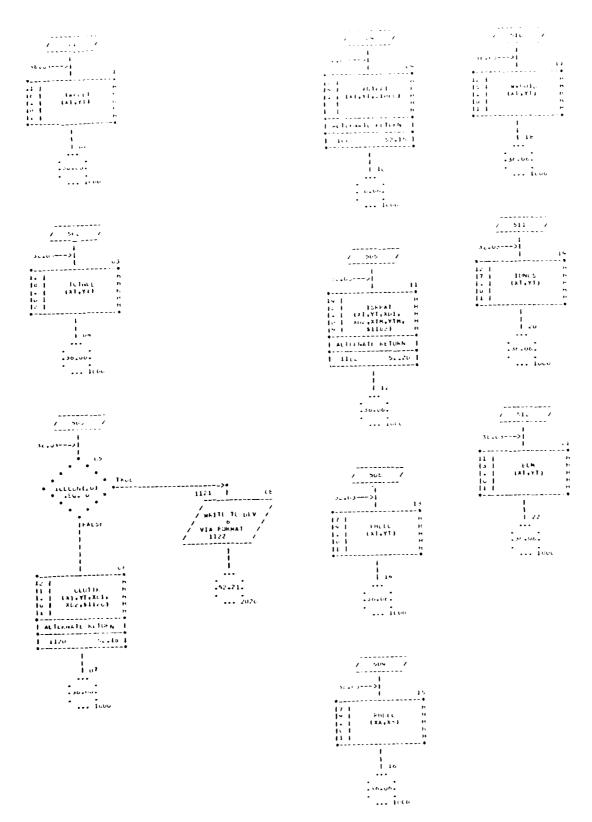
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| For March 1 |                |   | 30.01  24   24   24   24   24   24   24               |
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| Alpha       | 30-00-         | 36.01>}  16  17   UFAK H 17   UFAK H 18   11xf,XA) H 10   H 11   H 11   H 11   H 11   H 12   H 13   H 14   H 15   H 16   H 17   H 18   H 19   H 19   H 10   H 10 | 30.U1>  30.U1>  20   10   10   10   10   10   10   10 |
|             | / 477 / 30.03> | 20   20   20   20   20   20   20   20   | 1   28   28   28   28   28   28   28                  |
|             | / *36 /        | 10-012    22  | 30.01>  30.01>  30.01>  30.01>  30.01>  15            |

UNAFT TITLE + PROCESSION

|   |                      |   | Note |
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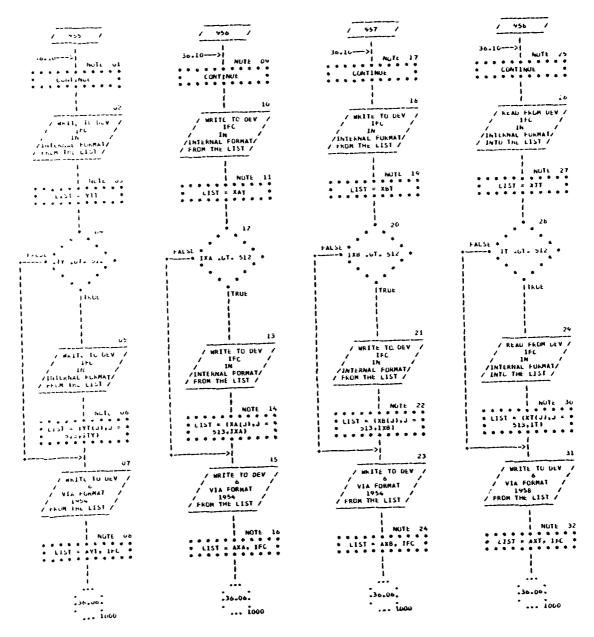
CMART TATLE - PRUCEDURES

| 30-10—>   MUT: 32 CUNTIME CUNTIME 10   MUT: 32 MATE TO DEV   MUT: 31   MUT:  | 1   1   1   1   1   1   1   1   1   1  |
|--|--|
| 39-10-7<br>NUTE 28<br>CONTINUE<br>CONTINUE<br>1 1300<br>VALCEMBE<br>VIA FEMBE<br>1 1007<br>VIA FEMBE<br>VIA FEMBE |  |
|  | NOTE 12 NOTE 12 NOTE 12 NOTE 22 INUE NOTE 23 INUE  |
|  | 38.01—7<br>38.03—7<br>38.01—7<br>38.01—7<br>38.01—7<br>MUT1 17<br>28.01—7<br>MUT1 17<br>38.01—7<br>MUT1 23<br>MUT1 23<br>MUT |
| And the control of th   | 17. 17. 17. 17. 17. 17. 17. 17. 17. 17.  |
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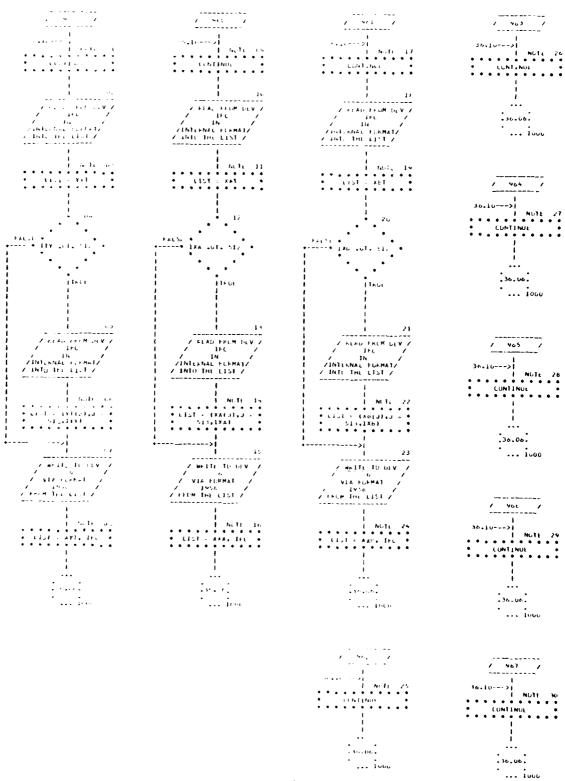
| ••••• | - 10. 4£              | 466   NOTE 21 |             | • CUNTINUE • | • | 10.18   | 467 ( NOTE 22 |              | CONTINUE * | * * * * * * * * * * * | ;         | 10-06        | 57 JUN   894 |  | -  | 38.01      | 46V NUTE 24 |              | * CONTINUE * | ******     |       | 20 1204 1 01.4                                      | * CONTINUE * |   | _      | _               | 42 34 |             | / WRITE TO DEV / | / V14 FORMAT / | , 06           | / EDEAR THE LICT / | 1000 311 1001 | - | NOTE 27 |       |
|-------|-----------------------|---------------|-------------|--------------|---|---|---------------|--------------|------------|-----------------------|-----------|--------------|--------------|--|----|------------|-------------|--------------|--------------|------------|-------|---|--------------|---|--------|-----------------|-------|-------------|------------------|----------------|----------------|--------------------|---------------|---|---------|-------|
| •     | 37.10>1 1.00.7c 1.0 1 |               | . CUMINOS . |              | - ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | - 17 June 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 |               | · CUNTINUE · |            |                       | 16-010-36 | 1 31 W 1 7 4 |              | Journal of the state of the sta | 74 | LE NUTE 13 |             | . CUNTINUL . |              | <b>-</b> ; | 10.00 | - 17 January 10 10 10 10 10 10 10 10 10 10 10 10 10 | <br>         | - | 1 1010 | 474 1 NOTE 15 1 |       | • CULTATION |                  |                | - AL TON - ATT | 4 4 8 8 8 8 8 8 8  | • CUNTANCE    |   |         | ***** |

36.06.

LMART TITLE - PROLEMINES



9-48



COURT Tales - Fraterioria

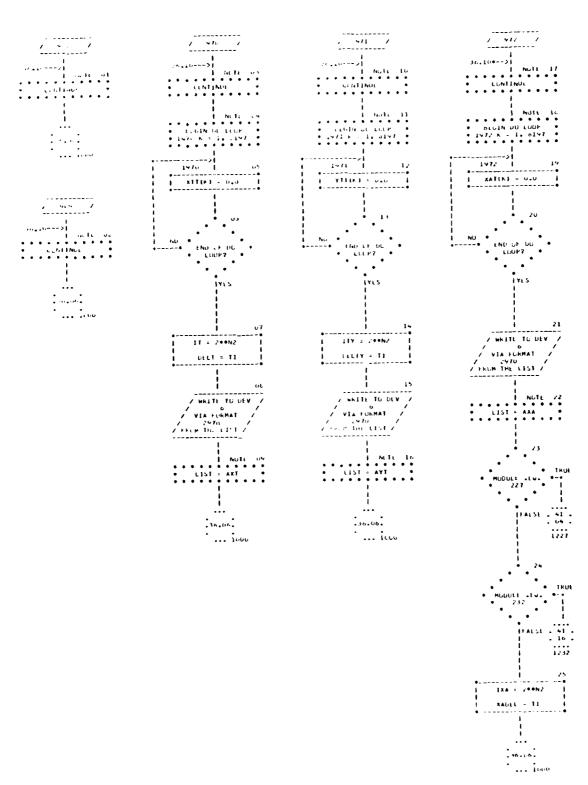
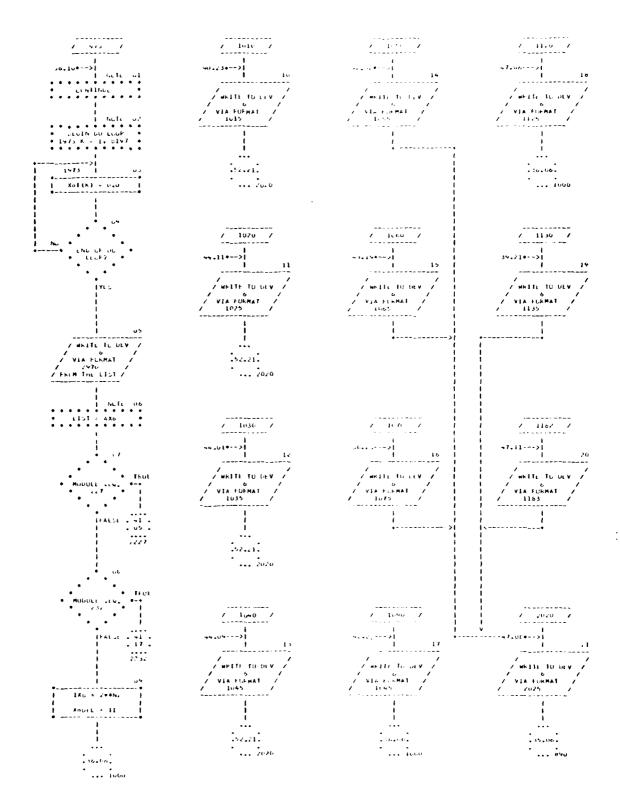


CHART THE - PROCECURES



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## WART BELL - WHERE EXCESSED STATEMENTS

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|        | 1cm = *, 1, 1  |
| 155    | FURNATURE TUNESPARY FILL NOME: FIFTH TOWN FULL BURNETH TO  |
| 1717   | PURMATE * THE AFRAYE, AND THE DEEN STOPES TO DATA SET TO 14,151  |
| 44.4.6 | PURMATE ! THE AFRAYTYACOTHAN DEED ENAMED FOR MINATA UET NULTETOS   |
| A 10   | FURNATOR THE ARRAY ", AGE HAS CEER SET TO CAULT !  |
| 1035   | FORMALL * NUN-STANDARD RETURN FROM DUCFOUTINE METT* 1  |
| 10.5   | FURNATE * NUN-STANDARD PETURN FROM SUFFECTIAL TSAFF.   |
| 16.55  | FURMATE . HIM-STANDARD RETURN FROM JULINICETTE FURNAY .)   |
| 1045   | EGEMATE * NEN-STANDARD KETURN ERUM SULFCUTTINE COEN*?  |
| 1055   | FORMATE IN . * NUNCTHEAR BRANSFORM IMPROPERCY DEFINED * 1  |
| 1065   | FURNATION OF THE PROPERTY OF T |
| 2015   | FERMATE * NEW-STANDARD AS TURN FROM SUCK WITH, C PETEMIT)  |
| 1145   | FURMATE * NUN-STANDARD RETURN FROM SUBSCURING SPEAKS * 3   |
| 1125   | FORMATT NUN-STANDARD FETURE FROM SUFFICITING COUTTR'S  |
| 11.4   | FORMAT ( *OTHE CEUTTER MODEL HAS NOT LEGIS PROPERTY INTITALIZED BY *   |
|        | *CLINT**. **CEUTIK** WICE NOT BE EXECUTED.*1   |
| 1135   | FORMATE NEN-STANDARD RETURN FROM SUBFICITING CONV.)  |
| 1100   | FURMATE * SUBROUTINE TOREAT NOT EXECUTED *3  |
| .165   | FORMATE ! STEP !: IS, ! WITH MUDULE = !: 14, ! HAS SCHEDULED AN UP   |
|        | CRAILIN WITH EXEC NUMBER *, 13,* WHICH IS OUT OF RANGE.* !   |
| .0.5   | FORMAT (THE CONDITION EXISTS WHICH WILL CAUSE THE REMAINDER OF THE   |
|        | S CUMPIGURATION TO SE EXPASSED. 1  |
| . 1155 | FIRMATE * THIS JUST COMPLETE * \$  |
| . was  | FIRMATE! THIS JOB ABORTOD BECAUSE OF IMPROVE INPUT DATA!.  |
|        | ****** PEINT OUT FROM ACTIVITY 1*1   |
|        |  |

4-54

CMART TITLE - SUBROUTINE FILTIX,Y)

|  | TRUE " 00 " " " " " " " " " " " " " " " " " | MOTE 10  **ELIN UO LOOP  **250 K ** 1. NP  ***COOP  **COOP  ** | # POUR 1.8   POUR 1.8 | 250 13<br>EMU OF COL  | TO THE PERSON |
|--|---|--|---|---|---------------|
| 43.110->  63.110->  1 pLOL(XN193)   FEQ = X(N194)   FEQ = X(N194)   A property   A property     A property   A pro | FALSE 55 - £0. 0.                           | SF 1.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | MZ - EQ - 0 - TRUE  | 1000   1000 | 900           |

|   |  | •             | *** |            |   | ,        | 7 | • |      | * | <br>5 5 | <br>•       | j              | 2 | 2          | <sup>:</sup> | \$5 |
|---|--|---------------|-----|------------|---|----------|---|---|------|---|---------|-------------|----------------|---|------------|--------------|-----|
| 5 |  | N. 1) 1704 40 | •=5 | <i>i</i> • | 3 | <br>3.00 |   |   | <br> | î | и и     | they a Pres |                | : |            | •            | 146 |
|   |  |               |     |            |   | <br>     |   |   | <br> |   |         |             | . <del>-</del> |   | - <b>-</b> | - †          |     |

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08/11/75

AUTOFLOW CHART SET - FWG/SCL RADSIM

CHAKI TITLE - NON-PRUCEDUKAL STATEMENTS

CUMMON/BLKI/ BK1(200), FZERG(2,50), FPGLE(2,50)

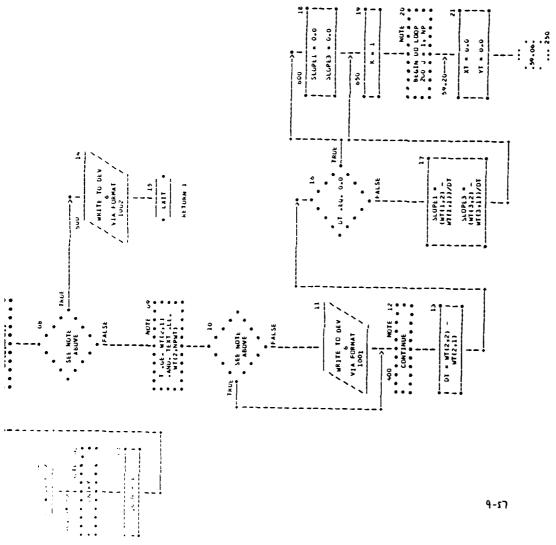
EQUIVALENCE ( NZ , BKI(72)) , ( NP , BKI(73)), ( SF

UIMENSION X(1), Y(1)

DATA N193,N194,N195,N196/-3,-2,-1,U/

CMART TITLE - SUBMOUTINE WEITHERS, Y. O.

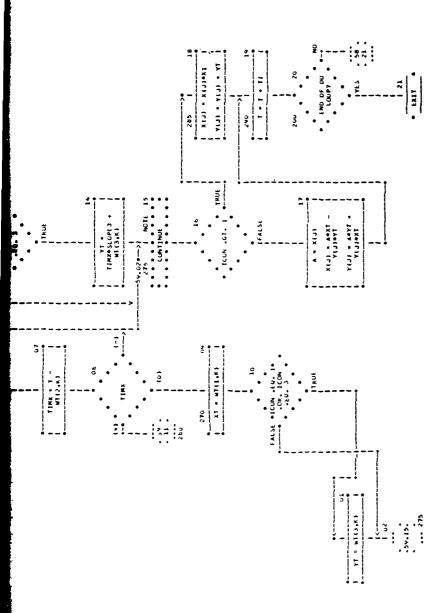
|            |         |  |  |  |   |                   |                            |                     |                    |                |       |                                       |                |          |           |                  |      |           |   |           |      |         | ;      | \$1000   1B | 1 SLUPES = 0.0   | 050               |         |
|------------|---------|--|--|--|---|-------------------|----------------------------|---------------------|--------------------|----------------|-------|---------------------------------------|----------------|----------|-----------|------------------|------|-----------|---|-----------|------|---------|--------|-------------|------------------|-------------------|---------|
|            |         |  |  |  |   |                   |                            |                     |                    |                |       |                                       |                | *        | 1 ans     | / WRITE TO DEV / | 1005 |           | * EXIT *  |           |      |         |        | 98          |                  | •••               | I FALSE |
| / WEITHP / | 40.27a> | ** * * * * * * * * * * * * * * * * * *                         | \$   | 1 1CUN = 3                                       | <   | 1 1 = x(N145)     | T = X(N194) - 1            | 6 COL (X (N 14.3) 1 | TEXT & T +         | I<br>I NCTE 07 | 1 2 7 | S S S S S S S S S S S S S S S S S S S | <br>85         | SEE NOTE | * ABUVE * | #<br>FALSE       |      | 90 3TON 8 | * I .GE. MT(2,1) * * .AND. IEXT .LE. * * MT(2,NPM1) * * * * * * * * * | <u> •</u> | TRUE | ABOVE . | IFALSE | :           | / WRITE TO DEV / | VIA FORMAT / 1001 | -       |
| / #LINc /  | *<      | ### This SUSKUITINE<br>FERFURE & WEIGHTANG<br>LFERMITOR ON THE | A AND TO STAND THE MELLONGER AND TO STAND THE MELLONGER AND THE ME | Int wildrings Orengiles May or eightem I AV heat | CONTRACTOR | in Macathors Also | 11177.<br>11177.<br>11177. | • -                 | less of the second | - • •          |       |                                       | <br>/ *F11CF / |          |           | •                |      |           |   |           |      |         |        |             |                  |                   |         |



9-57

11 • 1 • 1 275 | MOTE 15 TIMX SLUPE 3 + I TIMX+SLOPE1 + FALSE \*1CON .EU. 14 59.08---> 280 51-270 1 019 1 XI = WT(1,K1 | \$10PE1 = (WTG1,K \* 1) - WTG1,K | 1) - WTG1,K \* 1) - WTG3,K | 1) - WTG3,K , 220 , DT = WT(2,K + 250 06 1 TIMX = T -1 VT(2,K) 1FALSE K = K + 1 FALSE \*1CON .EQ. 58.21---> 77 3 TRUE

CHAKT TITLE - SUBRANTINE WEITREIX,Y,0)
,
o,
o



## CHART TITLE - NON-PRUCEDURAL STATEMENTS

CLMMLN/ BLK 1/8K1 (500)

DIMENSION X(1), Y(1), WI(3,100)

EQUIVALENCE (BKIC 21), IUMY

1, (BK1( 38), OKIG (BK1( 37), NPWT

(BK1(201), WT(1,1)

UAIA N143,N194,N195,N196/-3,-2,-1,U/

UATA AI/7.45654044EG5/

FURMATION THE WEIGHTING ARRAY, WI, IS NUT DEFINED OVER THE COMPLETE

INPUT DATA RECORD. THE BUTPUT IS SET TO ZERO IN THE UNDEFINED REGI

FURMAIL IN . THE WEIGHTING ARNAY, WI, IS NOT PRUPERLY DEFINED.

L MEIGHTING OPERATION WILL NOT BE PERFURMED."// )

1

See. 110

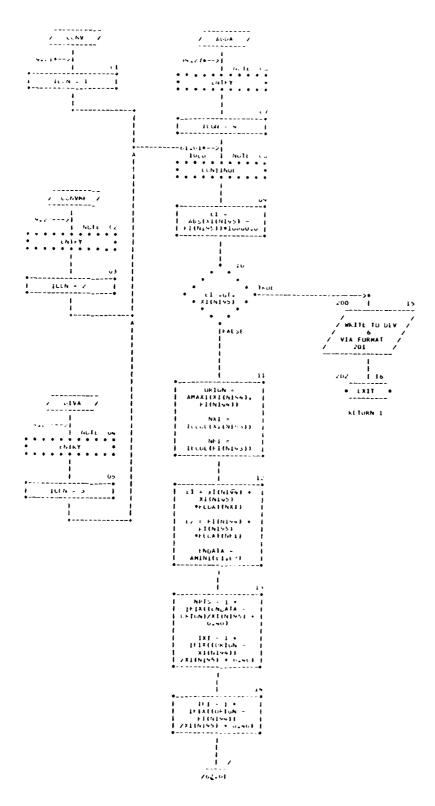
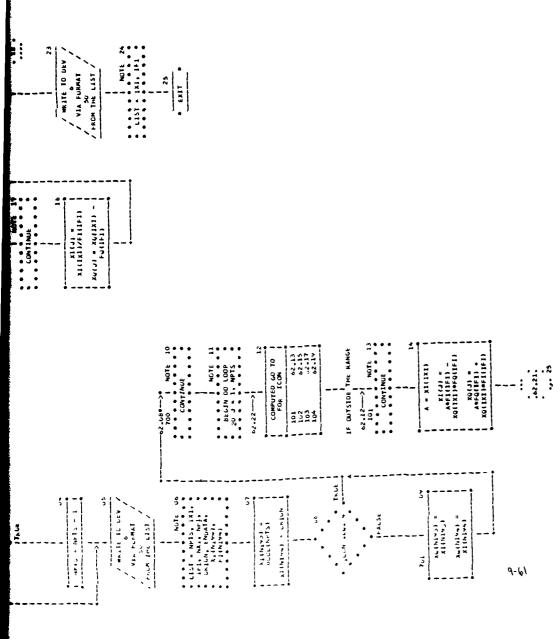


CHART TITLE - SUBROUTINE CONVIXI, XQ.FI; FQ.+)

| 20 22<br>20 22<br>21 23<br>23 24<br>24 25<br>26 25<br>27 25<br>28 26<br>29 27<br>20 | 62   183 · 183 · 183   |
|--|--|
| NOTE   LE   LE   LE   LE   LE   LE   LE  |  |
| *\-\*\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\  | 700   MOTE 10  CONTINUE  BELLIN DO LOOP  20 J 1, MPTS  CATASTON  COMPUTED CD 10  FOR 103 02.13 1  104 02.13 1  105 02.14 1  106 02.17 1  |
| FALSE - 144 - NP15 - 1   1   1   1   1   1   1   1   1   1   | LUST - NOTE - ON THE ON |



UE/11/75 CHART TITLE - NGN-PROCEDURAL STATEMENTS DIMENSION XI(1), XG(1), FI(1), FQ(1)

DATA N193,N194,N195,N196/-3,-2,-1,0/

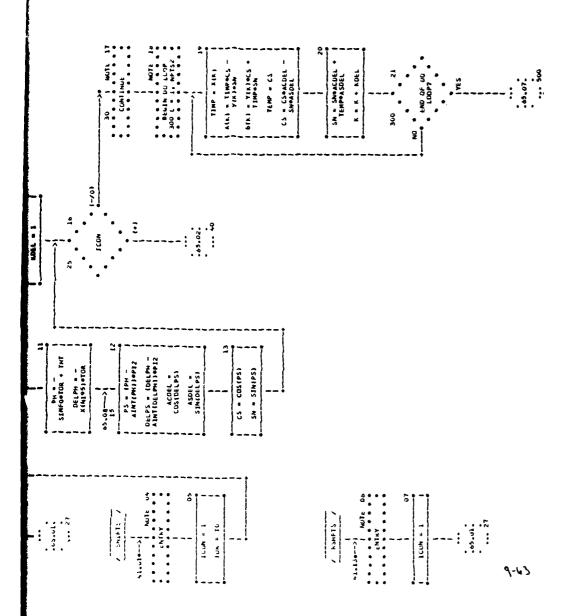
50 FURMAT(1H ,5112,4E14.6)

FORMATI 'INDEPENDENT VARIABLE INCREMENTS DU NOT MATCH ') 201

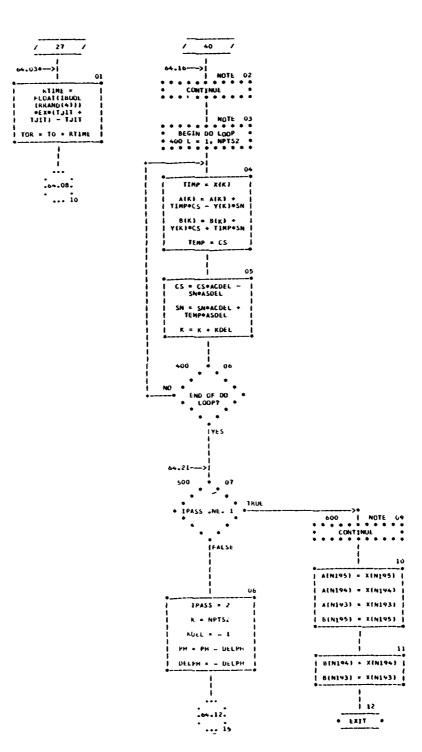
AUTOFLOW CHART SET - FWD/SCL RADSIN

CHART TITLE - SUBROUTINE SHIFT(X.Y.A.B)

|           |   |                   |  |  | 30   NOTE 17                              | MOTE 14<br>8 ELIN DO LGOP<br>300 L = 1, NPTS2   | 11000000000000000000000000000000000000 | 20<br>  3M = SMPACOLL +<br>  TEMPASOLL +<br>  K + K + NOLL |
|-----------|---|-------------------|--|--|---|---|--|--|
|           |   | 20   14<br>       | ACDEL = 1.0<br>ASDEL = 0.0<br>CS = CGS(THT)<br>SN = SIM(THT) | 15<br>NPTSZ = NPTS<br>1PASS = 2<br>K = 1                 | 25 16 16 16 16 16 16 16 16 16 16 16 16 16 |   | ;                                      |  |
| 101       | 08   NPTS = 1   18 col. (XM1931)   1   18 col. (XM1931)   1   1   1   1   1   1   1   1   1 | TRUE TOR .EG. 0.0 | FALSE 10   | 19ASS = 1  K = NPTS2 = 1  K = NPTS2 = 1  THT = THT/360.0 | SIMFORTOR - THT    DELPH = -              | AINT(PH) 19917  OLED S. (OLE PH -   AINT(DELPH) 19912  ACOEL S. (OS (OELPS)   ASOEL "   ASOEL " | (Salves + 8)                           |  |
| , 141H2 / | 10 0 = 403° 1   | <b>4~</b>         |  | · 5 · 1 · 1  |   | 4).010-07   | 2 2                                    | 100 HOTE OF  |



## CHART TITLE - SUBROUTINE SHIFT(X.Y.A.B)



9-64

AUTOFLOW CHART SET - FWO/SCL RADSIM

25/11/75

CHART TITLE - NON-FROCEDURAL STATEMENTS

CUMMCN/BLK1/ BK1(200)

EQUIVALENCE (BK1(180),TC),(BK1(181),THT),(BK1(182),TJIT)

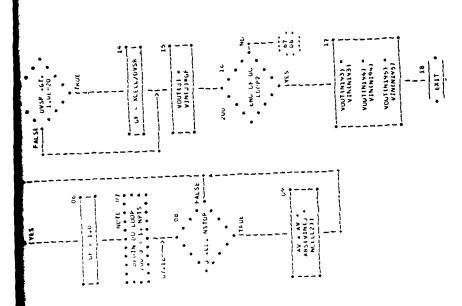
, (BK1(E), SIMFO)

DIMENSION X(1),Y(1),A(1),B(1)

UATA N193,N194,N195,N196/-3,-2,-1,U/

UATA PI2, EX/6.2831853,2.9103830E-11/

|             | FALSE . 10   | AV AV AV ABSVANO - NCELLIII - 12  DVSR AV - 12  DVSR AV - 13  FALSI DVSP - G1 - 13 | 1  | NO 1 NO   |
|-------------|--|--|--|---|
| CFAR     01 | AV = 0.0  AV = 0.0  AV = 0.0  BELLI PUCELZ = 1  AV = 0.0  BELLI PUCELZ = 1  AV = 0.0 | ABS(VIN(J1)) ABS(VIN(J1)) LOG COS LOG TUDDP2 FYES                                  | 00  10 1 10 1  NUTE 07  10 10 1 10 10 10 10 10 10 10 10 10 10 10 | 10 to |



GENERAL DYNAMICS FORT WORTH TEX CONVAIR AEROSPACE DIV F/G 17/9 ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING, VOLUME II. PAR--ETC(U) JUN 76 R J HANCOCK, F H CLEVELAND RADC-TR-76-186-VOL-2-PT-2 NL AD-A102 783 UNCLASSIFIED 2 01

AUTOFLUM CHART SET - FWL/SCL RAUSIM

LEAKT TITLE - NUN-FRUCEDURAL STATEMENTS

9-67

ELUIVALENCE (BK1(196), TAVG )

DIMENSION VIN(1), VOUT(1)

CUMMUN/BLKI/ BK1(200)

UATA N193,N194,N195/-3,-2,-1/

CAAKT 111LE - SUBROUTINE LAMPCP(KIN,VIN,KOUT,VOUT)

| MDTE 05 | MDT 00 | BEGIN DU LOOP | 260 J = 17 NPTS | 6 46.174-->| | MOTE 02 | ENTRY | | NPTS = | NPTS XIN())+CAIN / LAMPRE / MODE = 0 100 / LAMPCP / 1 MODE 1 -----

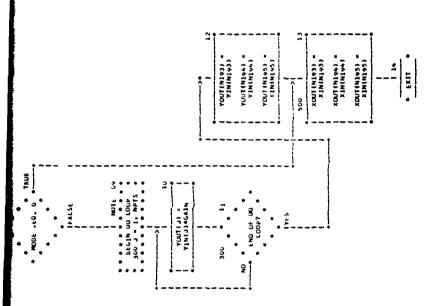
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| MUTE 69 | MUTE

YOUTEJE ..

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YDUTINIQ4) = YIN(N) 94) YDUT(N) 95) = YIN(N) 95)



02/11/12

CHANT TITLE - NUN-FRUCEDURAL STATEMENTS

DIMENSION XIN(1), YIN(1), XUUT(1), YOUT(1)

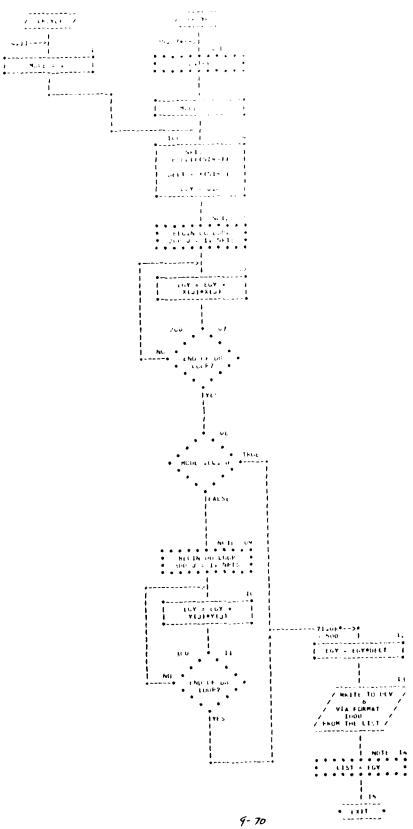
CUMMCN/BLK1/ 812001

UAIA N193,N104,N195/-3,-2,-1/

EGUIVALENCE ( B(145) , GAIN )

The second secon

9-69



9-70

ce/.i/75

LHANT LITEL - RUN-PROCELLRAL STATLMENTS

UIMENSION X(1),Y(1)

UATA N193,N194,N195/-5,-2,-1/

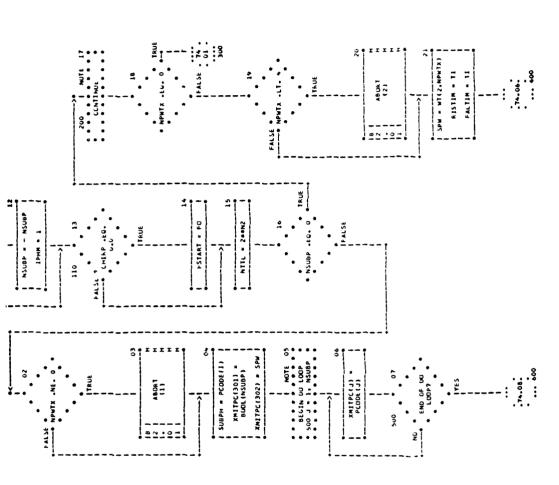
FUKMAT(" ENERGY IN THE WAVEFLIKM =", E15.5" WATT-NANUSECUNDS " 1000

FALSE . 44.030—)|
MOTE OB
NOTE NSUBP = - NSUBP FSTART # FO 1 NTIL = 200N2 I ITYPE . 2 TRUE . NSUBP .GE. 0 73.01->| 100 | 1 1PHM = 0 IPHM = 1 | NOTE 05 | SECTION | SECT SUBPH = PCODE(1) XMITPC(301) = BLOL (NSUBP) MITPELIBOZI = SPW xw17PC(J) = PCODE(J) ABORT (1) CHAPT TITLE - MERCUTINE FCENTYIX, Y) 73.10.

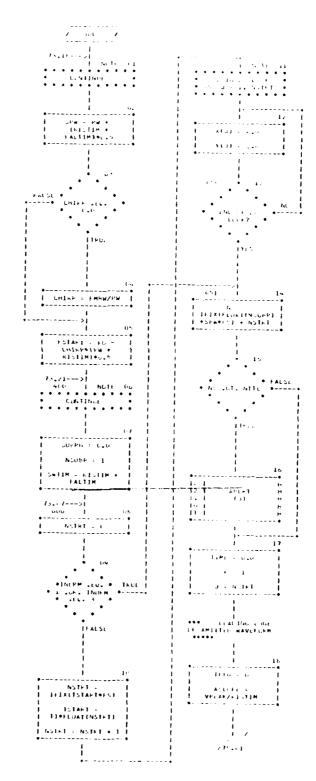
ABORT (2)

20:22

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## Secret tells of a resulting objectivity



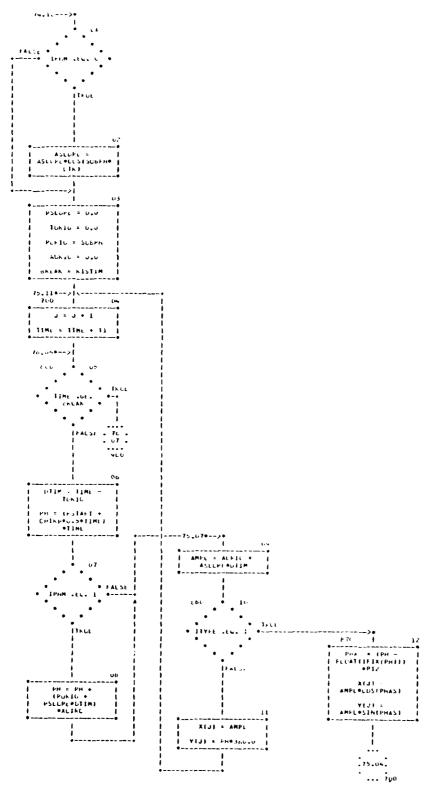
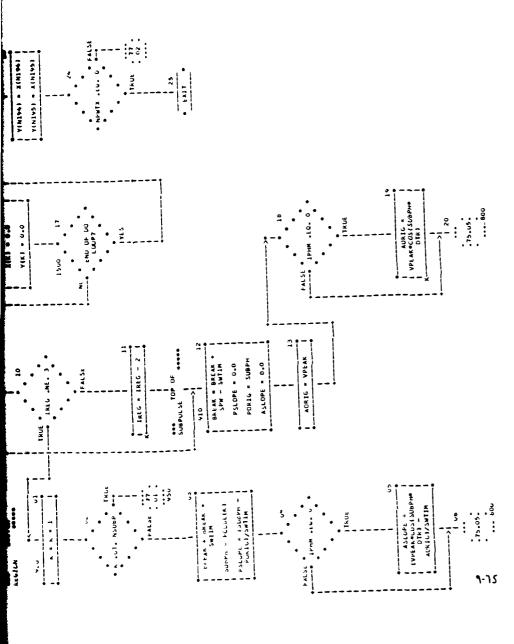
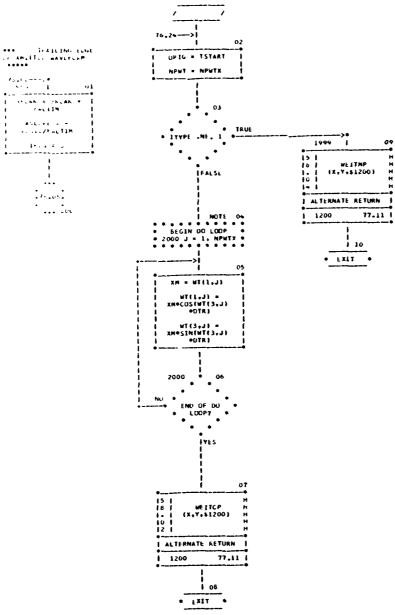


CHART TITLE - SUBMIUTINE FLENXVIX, Y)

|   |          | 1501   21<br>  1501   21<br>  MTL + J - 1 | 1502   22<br>  1502   22<br>  X(M193) | BCCLINTL!<br>X(M144) = 0.0 {<br>X(M145) = 11   | YIN193  = XIN193            | Y(N154) = X(N154)  <br>Y(N155) = X(N155) | ~~.                                   | * FALSE * NPWTX .tu. 0 | 118Uk 77             | [13]                                   |                    |   |   |
|---|----------|---|---------------------------------------|--|-----------------------------|--|---------------------------------------|------------------------|----------------------|--|--------------------|---|---|
|   | 1000 14  | •   | 200                                   | NUTE 15   NUTU 15   NUTE 15   NUTU | 1 KKK = 0.0                 | V(K) = 0.0                               | 1500 17                               | 00 40 0H3              | 1465                 |  |                    | ,   |   |
| 75.05>  07<br>  18E6 - 18E6 - 1  <br>  TOLIG - 8REAK  <br>  TOLIG - 8REAK  <br>  TOLIG - 8REAK  <br>  18E6 - 18E6 - 1 | IFALSE - |   | TRUE TRUE                             | lealse   |                             | TRUE                                     | • • • • • • • • • • • • • • • • • • • |                        | 11   1866 = 1866 - 2 | SUBPLISE                               | STEAK SPEAK + STIR | PSLOPE = 0.0<br>  PORIG = SUBPH  <br>  ASLOPE = 0.0 | • |
|   |          |   |                                       |  | PEP SELICE<br>ACCILCA PROFE | 3 - 4                                    | 3                                     | TKUE                   | Iraksk 77 .          | 0000 V V V V V V V V V V V V V V V V V | SATIA<br>SATIA     | POLUPIA I LOURN - I                                 | 5 |



#### CHART TITLE - SUBMOUTINE FORNAVERSYS



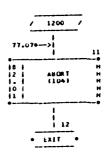


CHART IIILE - NON-FRICELUFAL STAFEMENIS

CCMMCN/BLK1/ VAR(200), WI(3,100)

COMMON/PECCOE/ XMITPC(502)

DIMENSION PCODE (300), X(1), Y(1)

LEUIVALENCE (WT(1,1) ,PCCDE(1))

ENDIVALENCE (VAR ( 2) FS ) , (VAR ( c) , FC ),

(VAK( 9), INURM ),

(VAR( 12) , T1 ) , (VAR( 37) , NPWT ),

(VAR(36), URIG ), (VAR( 92), CHIRP ),

(VAR( Y3) , FMEM ) , (VAR( Y4) , LPWIX ),

(VAR ( 45) , SPW ) , (VAK ( 40) , NSUBP ),

(VAR( 47) . SWIIM ) . (VAR( 42) . NISTIM).

(VAR( 59) , FALTIM) , (VAR(100) , 1STAKI),

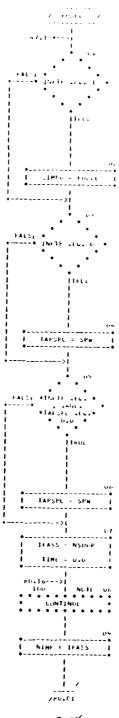
(VAR. 41) , FSTART) , (VAR. 40) , PW ),

(VAR(129) , VPEAK) , (VAR( 1) , N2 )

UATA N193,N194,N195,UTK/-3,-2,-1,1,7453292E-02/

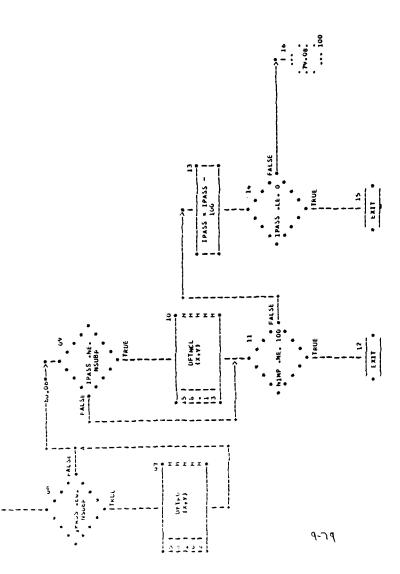
UAIA XCIRC/2.7777E-03/, PI2/6.2831853/

1



CHANT TITLE - SUBROUTINE PHOECIX,Y)

|    | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
|----|--|
|    | FALSE OV   |
| 17 | STAN THE THE TANK THE |



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UE/11/15

CHART IIILE - NUN-PROCEDURAL STATLMENTS

AUTGFLOW CHAKT SET - FWO/SCL RADSIM

DIMENSION X(1)+Y(1)

CUMMUN/PHCODE/ XMITPC(300),NSUBP,SPW

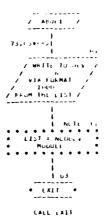
CUMMUN/BLK1/ ITEMP(199),NIMP,DIN(3,100)

EQUIVALENCE (ITEMP(102), FODEC), (ITEMP(154), TAPSPC),

INPTF) (ITEMp( 8), SIMFO), (ITEMP(155),

. **(** 

CHART TITLE - WORLDTING ASCRIBLICET





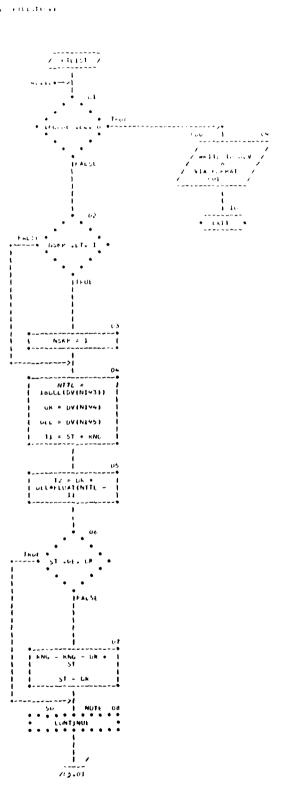
### NON-PROCEDURAL STATEMENTS

CUMMENZSYSZ MUDUCE

1000 FIRMATE PRICE 2 \*,15.\* COCCERNIC OCFING CRICCITION OF MODULE 2 \*,
15.\*....FATAL ERREPT JUB MILL TO MINATE\* 3

1001 FORMATER EFFOR : \*\*13.\* GCCGFFCC DOCING CACCUTION OF MODULE : \*,
15.\*....FIX-UP DONE, MEEC TO CAPAGE, COM NACE CONTINUES

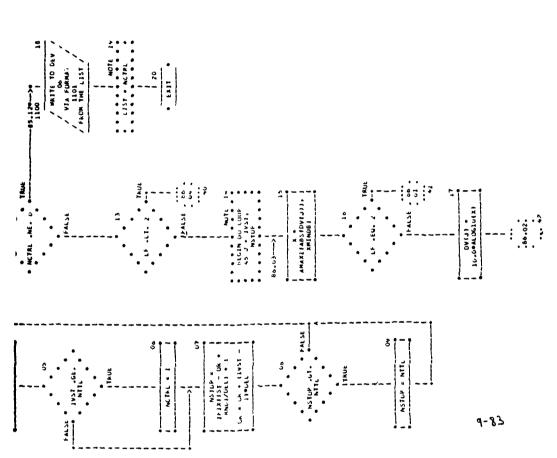
Committee of the contraction



04/11/75

CHART TITLE - SUBKOUTINE PTLISTIDUS

|  |        |                   |                 |           |               |   |           | 1100 1 16    | TO DEV | / VIA FORMAT / 1101 / FROM THE LIST / |     | :    | * L1ST = NCTRL * * * * * * * * * * * * * * * * * * * | 2                | • [1]     |               |         |              |                   |     |     |                                 |  |
|--|--------|-------------------|-----------------|-----------|---------------|---|-----------|--------------|--------|---------------------------------------|-----|------|--|------------------|-----------|---------------|---------|--------------|-------------------|-----|-----|---------------------------------|--|
|  | 10     | FALSE WSTOP LL. * | Tkut            |           | 11 NGTRL = 4  |   | 7         | NCTRL -NE. U | •••    | Falsk                                 |     | ••   | •  | * LF .LT. 2 **** | :         | [FALSE . 86 . |         | NUTE 14      | ۵.5               | • : |     | AMAX1 (ABS TOVE 1) . [ XMINOB 1 |  |
| 180c - 12 - 12 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15 | 144135 | 8                 | 1 AMC - T2 - S1 | 7 NOTE U3 | •<br>•  <br>• | 1 1/57 = 1+1x((5) - 1   1   1   1   1   1   1   1   1   1 | MCTAL = 0 | é            |        | FALSE * 1VST GE. •                    | ••• | TRUE |  | 0                | I MCTAL 1 |               | NSTOP # | ACIZOELI + 1 | Cx = Ck + (1851 - |     | 3 . | NSTOP .UT.                      |  |



PTL = ALGG10(PTH) PTH = AMAX1 (ABS(TH), ABS(TL)) ITEST . JFIXIPTL) FALSE \*TH .GT. C.0\* 1CON = 3 1CON - 2 NOTE 17 / HKITE TO DEV / IFCODE / IN IN INTERNAL FORMAT/ FEDM THE LIST / NGUT = {NSTCP -1VST)/NSKP + 1 LINE(1) = BOOL(TH) DEL \* DEL\*FLOAT(NSKP) LINEIS) & NSTOP LINE(3) \* IVST 7 1002 / LINE(2) ... BOOL(TL) LINE(S) = BUDL(UK) = BUDL(UK) = BUDL(UK) LINE(7) = BODL(RNG) MATE OT VOIL OUT Th = UV(1VST) IH = AMAX1(UV(3)+Th) TL = AMINITUV(J)+TL) 1L = 1h

CHART TITLE - SUBSCUTINE PTLISTIONS

01/11/30

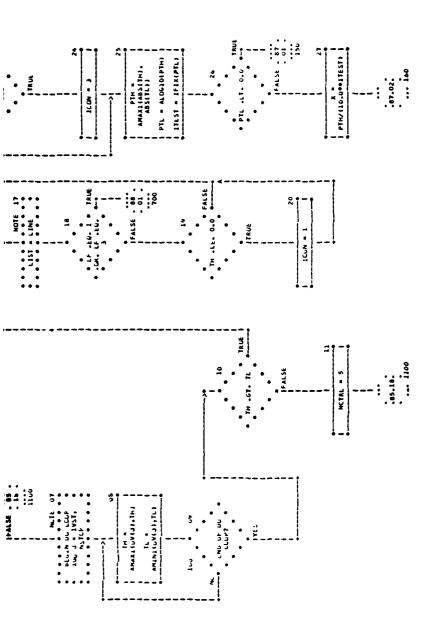
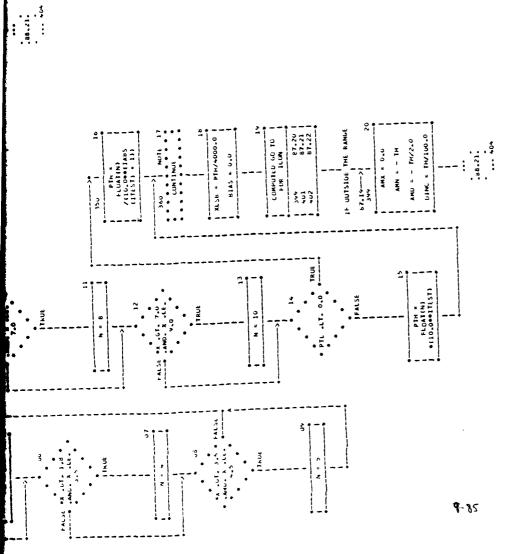


CHART TITLE - SUBRUDITNE PTLISTIDY)

| 87.19—> <br>87.19—> <br>AMX = IN<br>AMM = 0.0<br>AMM = 14720.0<br>0.1MC = 147100.0   | 87-1V/1<br>87-1V/1<br>AMX - 1H<br>AMO - 0<br>AMO - 0<br>- 01MC - 1H/Duru |  |
|--|--|--|
|  |  | 350 + 10 350 + 110 10,000   10 |
|  | FALSE ** .61. 4.5  | 11 12 12 12 12 12 12 12 12 12 12 12 12 1   |
| 00.26-2)<br>01.26-2)<br>01.26-2)<br>02.272<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10 | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                   | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |



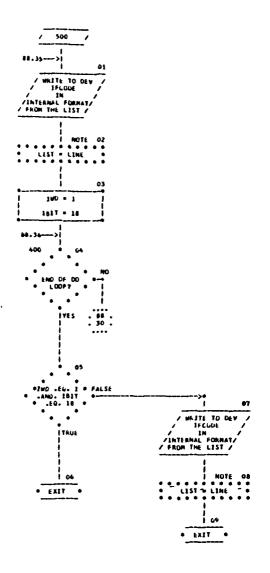
|       |  |   | 19   PACK H<br>12   PACK H<br>12   PACK H<br>10   1911,1180, H<br>11   11100) H | ATTERNATE RETURN  <br>  1100   85.18  <br>  MOTE 29<br>  MATERIAL LODG  <br>  MOTE 29<br>  MATERIAL LODG  <br>  MOTE 29<br>  MATERIAL LODG  <br>  MOTE 29 | 11   | FALSE *   | · Transition of the state of th | 7 TAGI                                   | PALSE  |                                       | 1 1047 4099      |
|-------|--|---|---|---|--|---|--|--|--|---------------------------------------|------------------|
| ;     | +4.: * * **. **. **. **. **. **. **. **. * | • • • • • • • • • • • • • • • • • • •   | 20 0.02   | MCIN. Nr. 0   | 1100<br>1100<br>1100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100<br>11100   | 17W = (TW -<br>81A5)/7L50<br>LIME(1) =<br>800L(81A5)<br>LIME(2) =<br>600L(KL50) | LINE(4) = 17H  | 24 24 24 24 24 24 24 24 24 24 24 24 24 2 | IFCOR<br>IN CHIEBAL CORNAT<br>FROM THE LIST    | MOUF 25                               | LIME 120 - LSTCH |
|       | 10 10 10 10 10 10 10 10 10 10 10 10 10 1   | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 00  | FALSE N. 14, 30   | 0,0  | FA15E N -E2, 60   | TRUE   | 111,                                     | F-0.05   |                                       | nu.              |
| 7 036 | O  | 20                                      | FALSE AND 61.   | 0   | O WARE LANGE TO THE TOTAL TO TH | FALSE 17. 77.   | 00   | 0 - XW = WW                              | OB<br>OB OB O | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2                |

than tite - subhouthe Pflistings

1 ALTERNATE RETURN 1 1 500 80.01 1 PACK (10AT, 1MD, 1817, LINE, \$900, 1 1047 - - 4045 1DAT = 4045 FALSE FALSE | NOTE 25 / WAITE TO DEV / INFOME LONAL FORMAT/ FORMAT/ LINE(13) = LSTCH LINE(181 = LSTCH ITH = (TH -61AS J/KLS6 LINE(3) . M LINE(4) = 1TH LINE(S) - 1ft LINE LOI . NOUT LINE(1) = BOOL(BIAS) LINE(2) = BOOL(XLSB) 1 - gal 1817 - 18 BIAS . AMK -FLOATIN) XLSB . 0.01 XLS6 = 0.05 36 · K WAND .GT. ILP FALSE | AMM - AMM - 10.0 ANN " ANX -FLCATIN) 07 + 2 : 2

.

CHART FITCE - SUBACUTINE - TELESTIONS



### NON-PROCEDURAL STATEMENTS

1161

801

CMANT TITLE - SUBMUSTIME PACKIDAT.IND.IBIT.IARY.\*!

PACK

|                |                       |   |                   |   | +   |
|----------------|-----------------------|---|-------------------|---|---|
|                |                       |   | FALSE 12 - EQ. 12 | 110 11 11 11 11 11 11 11 11 11 11 11 11 | FO(1817.9,<br>JARYIMO)) = 11<br>1817 = 1617 + 9<br>FLO(1817.9,<br>JARY(180)) = 12 |
| #8.288-71 01 1 | FALSE 111 .11. 32 *** | 11 - 11 - 11 - 11 1 1 1 1 1 1 1 1 1 1 1 | FALSE             | MOTE O7                                 | CE PALSE SER MUSE ABUVE   |

1817 = 0 1#0 = 1#0 + 1

|                     |   | 1 10   | 140 - 140 - 1<br>17 | 140 -51. 17   14                        | 1 1    |
|---------------------|---|--|---------------------|---|--------|
| FALSE 12 . Eq. 12 . | 110E  |  | 1 1017 - 1017 - 0   | 16<br>161 . LT. 35                      | EXIT . |
| inut.               | 12 = 12 - 1   1   1   1   1   1   1   1   1   1 | 12 . Lus 1 CANG<br>. Lus 12 . Lus 1 Lus<br>. Lus 12 . Lus 1 Lus<br>. Lus 12 . Lus 1 Lus<br>. Lus 12 . Lus 1 Lus 1 Lus<br>. Lus 1 L | 10 %1               | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ,      |

UU/11/75

CHART IITLE -

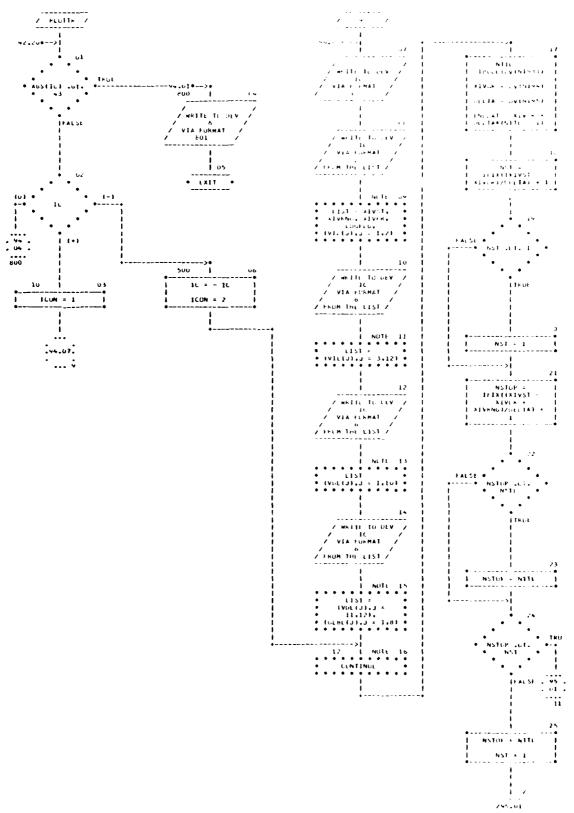
NON-PROCEDURAL STATEMENTS

DATA 1RUT/0177/ 18117/0100/ 1XCN/021/ 1CANC/030/

UATA 1EOT/4/.12/0172/.1CUNA/1/.1CUNC/s/

UIMENSION IARY(1)

CHART TITLE - SUBFOUTINE PROTTETOVE



CMART TITLE - SUBROUTINE PLOTTRIUY)

| ######################################   | 14   14   15   14   15   15   15   15 | 7 E           |
|--|---------------------------------------|---------------|
| TAUE  TAUE | 11                                    | 200 1 NOTE 66 |

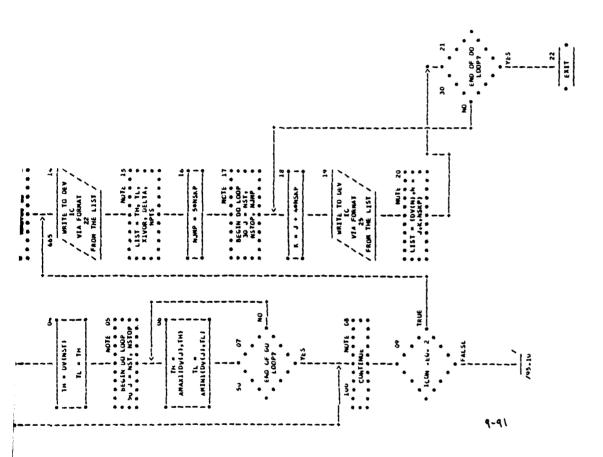


CHART IIILE - NUN-PRUCEDURAL STATEMENTS

COMMON/BLK1/ BK1(200),V1L(50),VDL(56),6LBL(50)

|   |                      |      |                   | -   | 31                | 113). | ( 8K1(113), 1C   | _ |             |
|---|----------------------|------|-------------------|-----|-------------------|-------|------------------|---|-------------|
| - | 1.                   | 661, | ), ( BKI( 66), TL | )   | <b>1</b>          | 651.  | ( BK1( 65), TH   | _ |             |
| - | ).( 6K1( 64), NAUTO  | 641, | 6K1(              | ).( | NSKP              | 631,  | ( BK1( 63), NSKP | _ |             |
| • | ).( BK1( 62), LOGFLG | 621, | BK1 (             |     | ( BKI( 61), XIVFR | 61),  | 8K1(             | ~ |             |
|   | ).( BK1( 60), XIVRNG | 60). | BK1(              | )•( | ( BK1( 54), XIVST | 541.  | BK1(             | - | EUUIVALENCE |
|   |                      |      |                   |     |                   |       |                  |   |             |

# UATA N193,N194,N195,N196/-3,-2,-1,6/

## DIMENSION DV(1)

| -         |  |
|-----------|--|
| CUTPUT    |  |
| DATA      |  |
| CARD DATA |  |
| PUNCH     |  |
| *         |  |
| FURMAT( . |  |
|           |  |

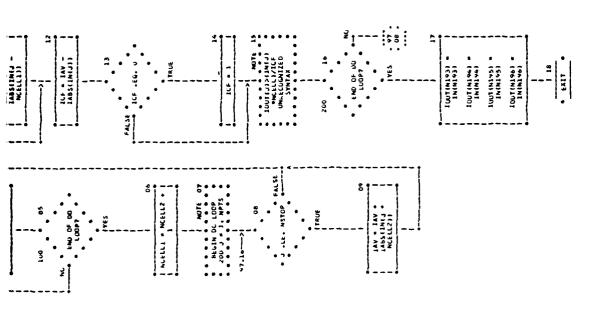
### . TRANSFERED.)

FURMAT(" PLOT DATA FILE IMPROPERLY DESIGNATED...NO DATA", 801

/ OCFAR /

CHART TITLE - SUBRCUTINE UCFARINGIQUT)

| NETLY | NETY | NETLY | NETLY



68/11/75

CHART TITLE - NUN-PROCEDURAL STATEMENTS

CUMMUN/BLKI/ BK1(200)

DIMENSIUN IN(1),10UT(1)

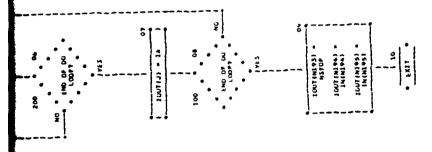
ENUIVALENCE (8K1(170), NCELL

DATA N193.N194.N195.N196/-3,-2,-1,0/

CHART TITLE - SUBROUTINE DIGTEL(IN-10UT)

06/11/75

NSTOP = NSTOP -ITAP(3,NTAPS) TOUTCA) . IA



HON-PROCEDURAL STATEMENTS

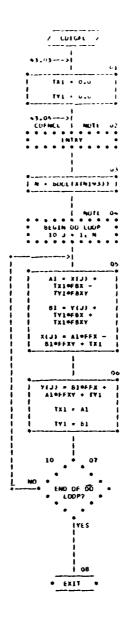
CUMMONZELATANTIZODI-JTAPIZ-1001

DIMENZION IMITI-TOUTILI

EQUIVALENCE (BRITILITY WIAPS

DATA MISE-MISS-MISS-MISS-100-

CHART TITLE - SUBROUTINE COTGRETER, VI



### NON-PROCEDURAL STATEMENTS

COMMON/BLK1/8K1(500)

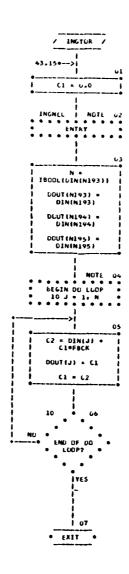
EQUIVALENCE (BK1(68), FFX), (BK1(69), FFXY).

(8K1(70), FBX).(8K1(71), FBXY)

UATA N193/-3/

DIMENSION X(1),Y(1)

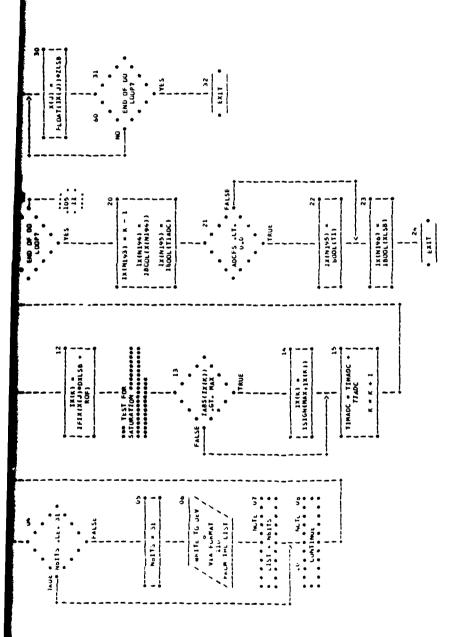
CHART TITLE - SUBRUCTINE INSTUREDINGOUUT)



### NON-PROCEDURAL STATEMENTS

CMART 1111& - SUBROUTINE ATCOCK,1X1

| 40.170->  MOTE 25<br>60.170->  MOTE 25<br>EMTRY<br>WALTE TO DEV<br>VIA FORMAT<br>130 | 27   | BEGIN DE LUGP 60 1 1, N 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | MO END OF UU • LLUP7  1715  1715  1715  1715 |
|--|--|--|--|
|  | 30 10<br>10/*)  ADCFS  11 17  1  | the Time 111   |  |
| 8  | MAX = 2001MBITS - 1  ROF = 0.50 CONTINGF   1  DXLSB = 1.07XLSB   1  OXLSB = 1.07XLSB   1  OXLSC = 1.07XLSB   1 | FRUE LT.  TIMAGE  TIMAGE  FALSE  FALS  FALSE  FALS  FALSE  FALS  FALSE  FALSE  FALSE  FALSE  FALSE  FALSE  FALSE  FALSE  FALS  FALSE  F | FALSE  |
| **************************************   |  | I DECULTANIUS))  I DECULTANIUS))  I PALSE  I PALSE   |  |



CHAKT FILLE - NEW-PRUCEUUKAL STATEMENTS

CUMMUN/BLK1/6K1 (500)

DIMENSION X(11,1X(1)

EUDIVALENCE (BK1(163), XLSE

(BK1(104), NbITS ), (BK1(105), IRCFF

(BK1(144), AUCHS

UAIA N193,N194,N195,N196/-3,-2,-1,0/

FURMAT (\* NBITS IS EXCESSIVE. THE VALUE OF NBITS HAS BEEN SET TO 110

. 71.

FURMAT(/// 49X+\*\* \* \* A TU D CUNVERTER \* \* \* \*\*/ / 1 120

FURMAT( / / 49X .\* \* \* \* D TU A CUNVERTER \* \* \* \* / / ) 750

WHAT HATE - GREGITAN - KLAUFERANTE

/ FURBLE / FP1 - C.0 KK. - U.U F44 - 640 KKU = KK10F61 + KR70F62 + XfJ1 | Y(J) = RIU\*FFU \* KKZ - KKI KRI = KRU k12 = k11 = k1 k)1 = k10 • <u>• XII</u> •

## NEN-PROCEDURAL STATEMENTS

COMMONZERIZARIOSO)

EWULYALINU: CHRICOLA PEO J & CORLEGOJ, CO. J & CORLEGOJ, PRI JA

CORLEGIJA, PO. J

LATA NIMAZZAZ

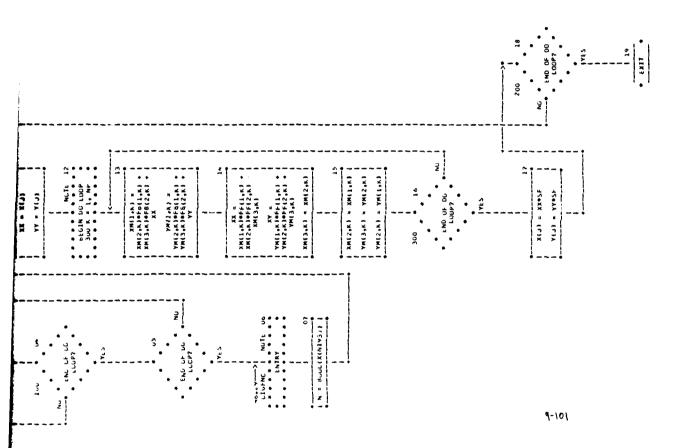
UMENDION XELJAVELJ

9-100

CHART TITLE - SUBROUTINE DIGFILIX.Y)

06/11/75

| / FCMFL /  | MUTE UE  ENTRY  ENTRY | N = 1  | XX = X(J)   YY = Y(J)   YY = Y |
|------------|--|--|--|
| / 010F11 / | NUTE C1  | MUIE U2   MUIE U2   MUIE U2   MUIE U2   MUIE U3   MUIE | NO ENC CH OF OC LUCKY  100 - 100 C C C C C C C C C C C C C C C C C C   |



CE/111/75

CHART TITLE - NUN-PROCEDURAL STATEMENTS

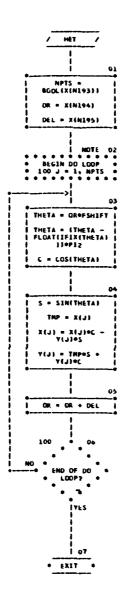
CLMMON/8LK1/ 8K1(200), FB(2,25), FF(2,25)

LUUIVALENCE (BK1(199), NP ) , (BK1( 74), SF')

UATA N193/-3/

UIMENSION X(1),Y(1),XM(3,25),YM(3,25)

CHART TITLE - SUBROUTINE METCHAY?



NON-PROCEDURAL STATEMENTS

DIMENSION X(11)-Y(1)

CGMMON /BLKI/ VAR(500)

EQUIVALENCE (VAR( 15), FSMIFT )

\*\*ATA %103,%104,%105,%106 /-3,~2,-1, 0/,P12/6.283185/

CHAKT TITLE - SUBRCUITNE ECMEX, Y)

1 IFIX(JSTAKT/ULLT) 1 357 = 1 111X(JPWZOŁLT) + 1 366 CHIRP2 = JFRBM/JPWeu.5 FSTRT # JFO -JFMBWeC.5 JST - NTTL 186. 7 200 NTTL = 200N2 NRPT = 0 100 AN T NEANUTED JAJANT = (JASIM + I JVEL#TIME) t serlingual Mark LANG & GANGE + NPTS \*
SUDL (X(N)VS) LEGAINIARSIN LINGIZJANG) 927.7278) CAN SU LCMF SF (AN.YR) 1.0 X? = 0.0 \*7...!

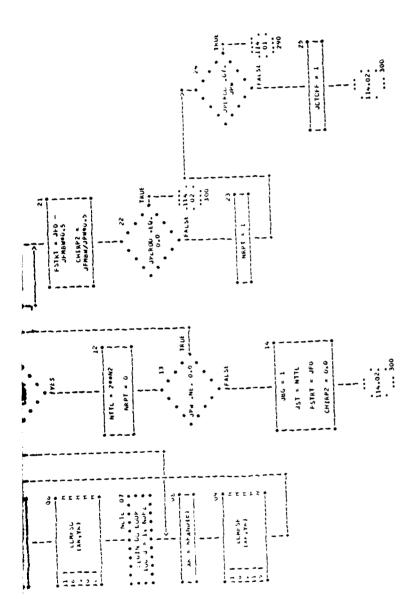
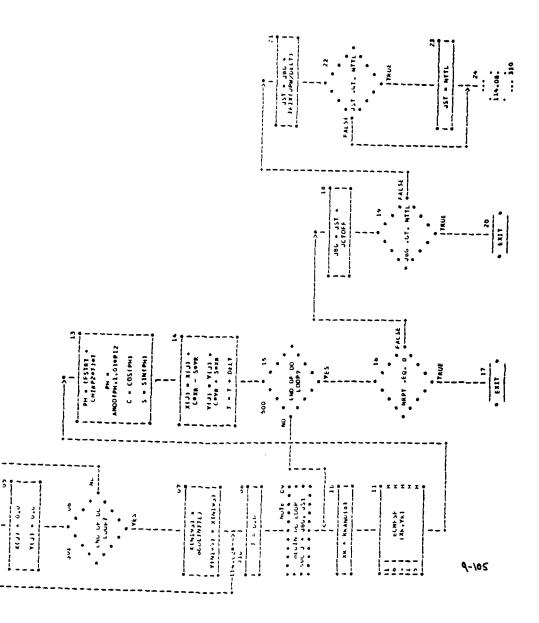


CHART TIFLE - SUBRILLINE &CMIX, V)

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NUTE US ETCATA UL LUBY O

| * -              | PH = {F5781 + } CMIRP2e11eT   PH =   AMOU4PH:1,01eP12   C = COS(PH) | S = SIN(PH) | K(1) = K(1) + ( GeRg - SeVR + (1) + ( CeVR + SeXR   T = 7 + DELT  | 30                                     |
|------------------|---|-------------|---|--|
|                  | A SOUNT S   |             | Z   | 9                                      |
| X X (1.1) x 0.00 | CNL UP UL   | 3           | 110 x (N) x | 11 0 0 0 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 |



Carried to the sales

CHART TITLE - NEN-PRUCEDURAL STATEMENTS

CCMMUN/BLK1/ 8K1 (500)

CUMMON/BLKRND/ DMY(8),YR

EQUIVALENCE (BK1( 16), TIME ) , (BK1(171), JRNGO ),

(BKI(172), JRSIM ) , (BKI(173), JMAZ ),

(BKI(174), JHGT ), (BKI(175), JERP ),

(BKI(176), JFMBW ) , (BKI(177), JPW ),

(BK1(178), JFO

(8K1(156), JVEL ), (BK1(157), JPERGD)

) . (BK1(197), NDFZ .(BK1( 1), N2

DIMENSION X(1),Y(1)

DATA N193,N194,N195/-3,-2,-1/,PI2/6,2831853/

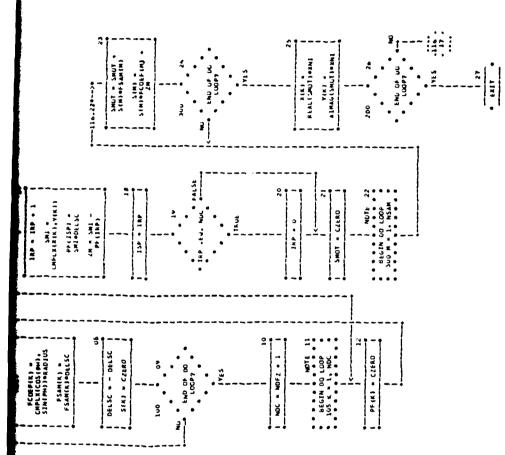
REAL JRNG.JRSIM,JMAZ,JHGT,JERP,JFMBW,JPW,JFO

REAL JVEL, JPEROD, JSTART, JRNGO

9-106

| SUBALUTINE DIGFSF(K.V) |          |
|------------------------|----------|
|                        | FSF(K.Y) |
|                        |          |

|  | 300 24 24 24 24 24 24 24 24 24 24 24 24 24   |
|--|--|
| 105 13  NO EM OF DO EM OF DE E | 15 - 18   19   19   19   19   19   19   19   |
| 113.06>   MOTE 02     113.06>   MOTE 02     113.06>   MOTE 02     113.06>   MOTE 04     113.06>   MOTE 04     113.06>   MOTE 04     114.07   115.07     114.07   115.07     115.07   115.0                     | 100 06<br>100 06<br>100 06<br>100 06<br>100 06<br>100 06<br>100 06<br>100 100 100<br>100 100<br>100 100 100<br>100 100<br>100 100 100<br>100 100<br>100 100<br>100 100 100<br>100 100<br>100 100<br>100 100<br>100 100<br>100 100<br>100 100<br>10 |
| 10   (FANT)  |  |



9-107

41/11/15

AUTUFIUM CHAKI SET - FWU/SCL RADSIM

CHARL TITLE NEW PROCEEDINAL STATEMENTS

LLMMEN/HLNI/ VAR (2001+15AM (100)

INCITABLENCE (VARCIUM), RADIUS 1 . (VARCIUM). NSAM ).

(VAR (197), NEI 2

LUMPLEN 15AM. PP (256) . LUEF (100) . S (100)

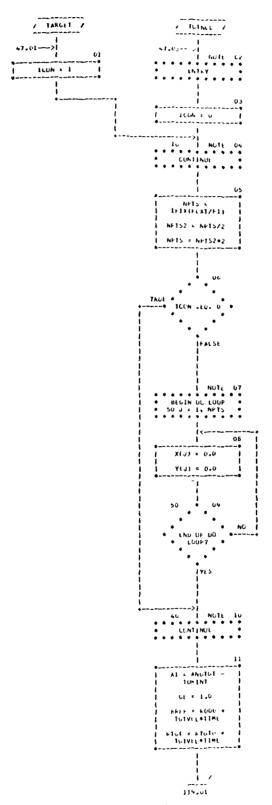
9-108

( | MPL | X | SM1+SM(1+2M+CZEKL / | 0+0+0+0)

LIMENSTON X (1)+X(1)

UALA NIMIZ-3/-PICZO-28 (1853/

CHART TITLE - SUBROUTING TARGETER, VI



9-109

CHANT THEE - SUBLIGHTING TANCETERS !!

XIN194) = -F1+FLOATENPTS/2) X(N193) = BOOL (NPTS) PHASC = 1 1 AMUNIUPHASE1.03 1 CS . ACCUSIPHASE) SN = ASSINIPHASE) SN = SNOACDEL + TEMPOASDEL | X(K) = X(K) + CS YIK) = YIK) + SN CS = CS\*ACDEL = SN\*ASDEL | FALSE K = K + KDEL TEMP = CS | NUTE OF 71 | NOTE OF 60 1 44 Skhl(†\$CAT(1,J)) | | L AZGAIN(ANGIGI) #GE 1 = 6/0.1456403 DEEPS PAULIUE AMULTUE PH. 1-UP DLLPH = - F101 Ct = Etuainiansin (HIUI/NIUI) #57,24578) DPHAS = - FUET A = NFTS2 + 1 K = KKLF + 15CAT(2+J) + CUS(1A1 - 15CAT(3+J)) + U-CI745331 ACDEL = CUSTOLIPS) Asott # SIMILELPS IFASS = 1 KULL = 1 110.41---> 119.16--->

1PASS - 2

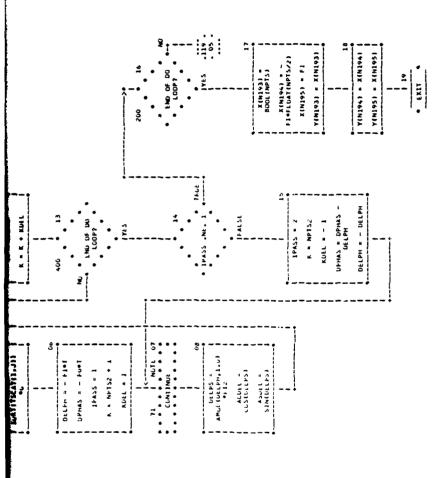


CHART IIILE - NUN-PRUCEDUKAL STATEMENTS

CUMMUN/BLK1/ 6K1(206), TSCAT(3, 106)

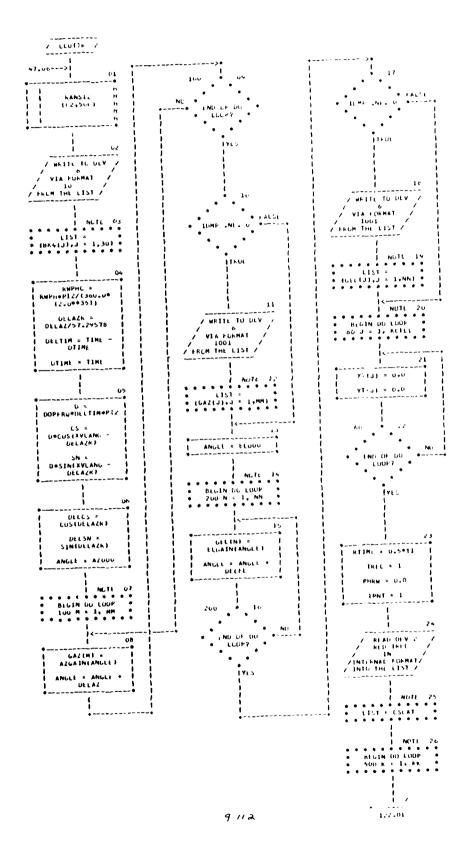
| :                 |                | •              | :                     | ÷                   | -                    |                      |
|-------------------|----------------|----------------|-----------------------|---------------------|----------------------|----------------------|
| FexT              |                | нТСТ           | ANGTGT                | KOCO                | IGIVEL               |                      |
| ).( bkl( 4), feXT |                | DK1(106), HTGT | ), ( chl(106), ANGTGT | ). ( EKILLIO), KOGO | ),( DAI(112), TGTVEL |                      |
| ) • (             | <b>:</b>       | ) . (          |                       |                     | •                    | _                    |
| J.                | FI             | IUMY           | ATOTO                 | TCKINT              | NSCAT                | F                    |
| ( BK1( 3)+ FU     | ( 6K1( 11), FI | EK1( 21), 10MY | BK1(107), ATUTO       | BK1 (105), TCKINT   | BK1(1111), NSCAT     | 1 5K3 ( 1 4 ) - 11K2 |
| _                 | _              | ~              | _                     | ~                   | _                    | ,                    |
| EUUIVAL ENCE      |                |                |                       |                     |                      |                      |

DIMENSION X(1) , Y(1)

UATA N193,N194,N195,N196/-3,-2,-1,U/

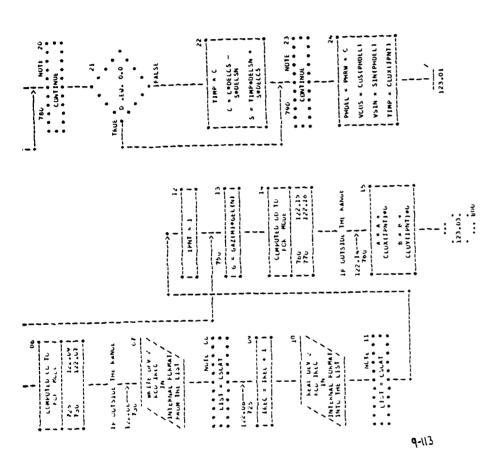
UAIA F12/6-2831853/

CHART TITLE - SUBMOUTINE CHUITKERS, YT, GAZ, GEL, 41



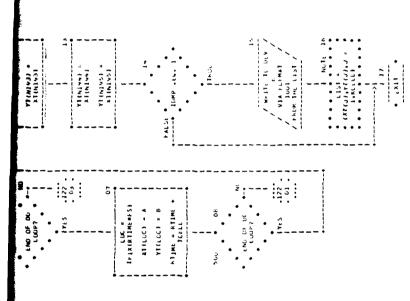
trant lille - tunstilling trullnestrylaus2stel.+)

| 122.14—>  NUTE 10   NUTE 1 | INU = IKANU (AKD)     IKND = IKND + IKND + IKND + IKND + IKND + IKND     IKND = IKND     IKND = IKND     IKND = IKND     IKANU (AKD) = IKND     IKND (AKD) = IKND     IKANU (AKD) = IKND     IKND (AKD) = IKND     IK | TRUE 0.00 1.1 PALSE   FALSE   FALSE |
|--|--|---|
|  |  |   |
| MULL CO. MILL CO. MIL | 11.3.v2> 11.3.v2> 11.3.v2> 12.3.v2> 12.3.v2> 12.3.v2> 12.3.v2> 14.3.v2> 15.0.v2> 17.3.v2> 17.3.v2  | 1   |



.

|  | * · · · · · · · · · · · · · · · · · · ·         | 10  |  | VIOLES : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                 |
|--|---|---|--|--|
|  | FARSI MCCC                                      | I HALL WALL WALL WALL WALL WALL WALL WALL | KILINIA<br>KILINIA<br>KILINIA<br>KILINIA<br>KILINIA<br>KILINIA | HALS.  |
| CLUVIIMI) = (1  CLUVIIMI) = (1 | C-CLUTIPN1)   1   1   1   1   1   1   1   1   1 | 00 00 00 00 00 00 00 00 00 00 00 00 00    | EMO OF 00.   | 07<br>XIP17M + 53<br>11(CC) = A<br>11(CC) = B<br>HI = K17H + E<br>161(C) = B |
|  | 3 377   | 7 7 7                                     | 3  | 1 × 1 3  |



CLMMLN/BLKI/ BKI(200)

CUMMUN/ELK330/EK4(50)

DIMENSIUM GAZ(11), GEL(11), CLUX(250), CLUY(250)

CUMMEN/BLKRND/ IIII(12),NKAND(124)

DIMENSION XT(1), YT(1), CSCAT(500), 1KAND(128)

ECUIVALENCE (CLUX(1), CSCAT(1)), (1KANU(1), NKANU(2))

EGUIVALENCE (CLUY(1), CSCAT(251))

|   | -                 | :                 |                |                 | <b>:</b>          | :                   | -               | -                  |  |
|---|-------------------|-------------------|----------------|-----------------|-------------------|---------------------|-----------------|--------------------|--|
|   | 1.(FK]( 21), 10MP | • FS              |                |                 | ).(EK4( 9), A2000 | ), (ok+( 12), EL000 | *               | 1.(6k4( 17), DELAZ |  |
|   | ( 21)             | (2 )              |                |                 | <u>}</u>          | (21)                | ( ) ( )         | (11)               |  |
|   | 1. (ck.)          | 1. (EK.1 ( 2), FS | :              | :               | ) • (EK4          | ) . ( OK 4          | 1.(3k4( 14), KK | ) • ( bk 4         |  |
|   | TCt.LL            | 11                | KEFH           | (8K4( 6), RNEXT | (FK4( 7), KNGGO   | Σ                   | z               | MCLE               |  |
|   | 141.              | 121,              | 31,            | 61,             | 7),               | 10).                | 13).            | 16),               |  |
|   | (8K1( 14), TCLLL  | (6K1( 12), TI     | (8K4( 3), KWPH | (BK4(           | (5K4(             | (EK4( 10), MM       | (BK4( 13), NN   | (BK4( 16), MCDE    |  |
| 1 | ENUIVALENCE       |                   |                |                 |                   |                     |                 |                    |  |

1. (FA41 14), XVLANG

1. (BK4( 21). DOPFRG

18K51 2412 16FLG

(BK4( 18), OLLEL

| -                 | -               |                |                 | -                  | -                   | •               | -                  | •                    | -                   |                  |                 |
|-------------------|-----------------|----------------|-----------------|--------------------|---------------------|-----------------|--------------------|----------------------|---------------------|------------------|-----------------|
| ICMP              | FS              |                |                 | A2000              | £1000               | *               | DELA2              | XVLANG               | DUPFRC              |                  |                 |
| 211.              | 21,             |                |                 | •                  | 12),                | 14),            | 17),               | 19),                 | 21.1.               |                  |                 |
| 1.(FK1( 21), 15MP | 1. (EK1( 2), FS | :              | :               | 1. (EK4( 9). AZUUU | ), (ch4( 12), £1000 | ).(3K4( 14), KK | ).(EK4( 17), DELAZ | ). (En+( 19), XVLANG | ).(EK4( 21), DUPFKG | _                | -               |
| (8K1f 14), TCLLL  | 11              | T MAR          | (BK4( 6), RNEXT | (FK4( 7), KN000    | Σ                   | Z               | MCDE               | (8K4( 1E), OLLEL     | (8K4( 20), 1CFC6    | (9K41 22), KCELL | TIME            |
| 14).              | 121,            | 31,            | 6),             | 71,                | 101.                | 13),            | 16),               | 18),                 | 201.                | 721,             | 16),            |
| (BK1C             | (6K1( 12), TI   | (8K4[ 3), KWPH | (BK4(           | (FK4(              | (EK4( 10), MM       | (BK4( 13), NN   | (BK4( 16), MCDE    | (BK4(                | (8K4(               | ( 4K 4 (         | (cki( 16), 11ME |
| ENUIVALENCE       |                 |                |                 |                    |                     |                 |                    |                      |                     |                  | EULIVALENCE     |

DAIA N193. h194. N195. N196/-5.-2.-1.C

DATA (TIME, IMULT, P12/0.0, 1220703125, c. 2151252

ic FURMATOR , CLIFEN, 12, EX, CLIFEX, CLZ, EX, CLZ

1001 (comp.1(18 ; ct.20.5)

CHART TITLE - SUBRUCTINE NVGUIDIX,VI

47.17-->\*
UNITS: CFREGIGH2) \*
XMLEW HETERS) \*
CNSTIMANOSEC/METER) CF. = CFRE DACFRED

13 = CAST EXMLENC

12 = T1 = P12

NPTS = BODL (X (M193)) / WYGUID /

| 8 | i         |                | 8    |
|---|-----------|----------------|------|
|   | X(N194) • | DELF = XIN195) | MOTE |
|   | FREG " X  | DELF .         |      |
|   |           |                |      |

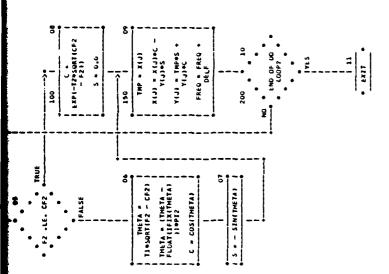
| F = XIN195) | NOTE 03        |  |
|-------------|----------------|--|
| DELF =      | BEG1N<br>200 J |  |

|   | 3 | FREQ*FREG |  |
|---|---|-----------|--|
| • |   | F2 = F    |  |

|                    |     | 361         |
|--------------------|-----|-------------|
| I FZ = FREQUERRO ( | \$0 | FZ .LE. CFZ |

| EXP[-12-508](CF2 - F23) | 150 00 | (L)X = 441                  | S*(C)*             | Y(J) = TMPeS + | FREG # FREG .  | - Dête |
|-------------------------|--------|-----------------------------|--------------------|----------------|----------------|--------|
|                         | 8      | THETA # 1105GRT (F.2 - CF2) | THETA E (THETA - ) | 110912         | C = CUS(THETA) |        |

07 1 S = - SIN(THEIA)



HOM-PROCEDURAL STATEMENTS

CUMMON/BLKI/ VARISOON DIMENSION X(1), Y(1)

EQUIVALENCE (VAR(146) . CFREQ ) , (VAR(147) , MALENG ) EGUIVALENCE (VARI 3) , RFFO )

DATA N193.N194.N195/-3.-2.-1/.CNST/3.3333/.P12/6.283185/

1/

+ 2

CHANT TELL TOURISM INTO LANGUE TRAVE

/ John / 47.14---> VARIATEL CLOSES AS INTEGRATED CALCED TO URNETY ALING PEUPALATION FATH (ELECTFUND/CM+CM) 1 214N FRIG - (X(4)194) + FFF1101.ct + 09 MILE OF MALE O Incha connected IME : X(J) C - COSTINCTA) X(J) - X(J)+C -Y(J): TAPPS
Y(J)()

) FREW - FREW - |

OCLF

200 - US

NO - US

NO - US

LOUP? Jetria : tria \* 11x3

## MCN-PRECEDURAL STATEMENTS

CIMMENZHERIZ VARESON)

WIMENSEUN XEEDSVEEL

CAUTALENCE (VAREENEE SCHEENE E. (VAREE E. CONTRACTOR)

WATA NEWSTWA, NEWSZESSTEINEEZ (CONTRACTOR)

CHART TITLE - FUNCTION IPACKLISTK, 1DATA, 1WGRD)

| ظ <u>ا</u><br>ا د | ;                       | 1                               | <del> </del> |           |
|-------------------|-------------------------|---------------------------------|--------------|-----------|
|                   | ITEMP = IDATA*(2**ISTK) | IPACK = IBUCL(GR(ITEMP, IWURD)) | 70           | # L[X-1 # |

9-118

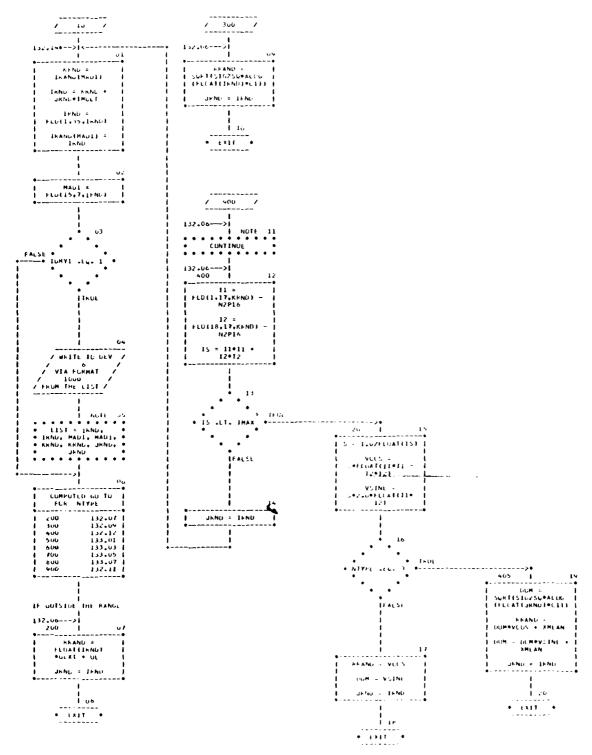
Charl Tiles - FUNCTION ISOUR(X)

X1 = X 1buul = 1X 1 buul = 1X 1 05 1 05

NON-PROCEDURAL STATEMENTS

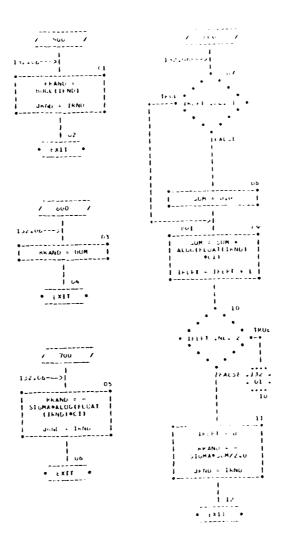
EJUIVALENCE (IX.XI)

CHART TITLE - FUNCTION - KNAMEINTYPET



9 120

## CHARL BARES - CONCRETE TO SPANGEMENTALE



## A CHE PHOCEOURAL STATEMENTS

COMMENSATION TO THE MALE OF THE AREA OF TH

9-121

Company of the Compan

Marin .

(MART FITEE = tour colline observation (Aller Agent)

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| Note |
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NON FEECEN HAY TATEMENTS

\* 180 N 15 N (111 V 111

CHART TITLE - FUNCTION JELD (1ST, NEITS, IMCRD)

\* EXIT

A Termination of the property of April Mills.

CHARLEST CONTRACT AND ARTEMENTS

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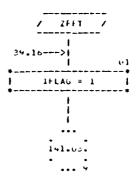
Sala Seselvisial 1884, a communication to the experience AND FRANCE CONTRACTOR OF THE STATE OF Anniahetralian, to calee and a contribution a Accounted the end of the state of the section of th Allowand and the state of the s 11 West 646 + 10 1 , continuing the continuing the first ter-Callynamic Calon Con Carrent on Carrey Constitute colformer, for home the allies of the posterior of the Introdezono con contrato contrato con contrato 25262 W7492-16-16251///-52/495//-55-11161//5//--143951730434607430611/1461314354\* /4444 /444148/ 1474434032440684017337042714.2044441738171704384 10410917614,234164,0791,226256 1045,410600745449. 0170/086304.1700045087.18004140. //4,/04/5/04/21. 17100242437+24200744150+8885\*\*\*\*\*\*\*\*\*5004453728+ 1000350119, . 188 1873859, 188247 (1280) 1808 145 1786 ; 6160418666/

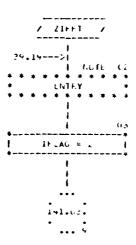
UATA HENCE/12001150 44,000 47004054,154101070004,14307343176, 256522015-0.134680-1055.017347.1400.01284355507. 28120755669.3232090.500,19571.9.797,07603755917, 24386072834,24317443472,07114843043+10232718423, 2417620424642666657481842035168663233188643575464 25072565245,31374670076,13676667951,30463156192, 20172084000,10109201(42,149742).467,10263016420. 163162673994189361662074072806760974496622761994 01577045480,16742667695; Lature fet,18174114666. 30592487160,105924: 7160,28160949700,33365415709, 17/35921632,753,72444850,30007056175,13486881553. 30224146561,07655423367,32676402541,13101024674, 30533512964.07216771534.00224536670.24146604401. 33122308420.24107516500.1655461415.566415110. 3441463822458847764744307565451864188327453614 18174114680, 10596707007, 10140, 08096, 9774017119/

9-124

and the second s

- CHART TITLE - SUCKOUTINE AFFT(X,Y)





9-125

32 | 26 32 | 26 / WkITE TO DEV / VIA FUKHAT / S 3 3 / FRUM THE LIST / | NCTE 27 ... 500 701 | NUTE 20 | NOTE 23 L00P2 . 30 1 1 11 = NP + 1 X(T) = X(T)+KT 7(3) = 0.0 0.0 = (L)x Y(1) . 0.0 \* TRUE | \* TRUE | | NOTE | 14 | NOTE | 14 | NOTE | 14 | 11 J = 11 NP | 11 J = 11 NP | 11 1 X(J) = X(J)\*R1 Y(J) = - Y(J)0R] FALSE RI = 1.0 ~--1\*1 "04e--> FALSE THURST THE PAINE TO THE PAINE T LUMPOTER OF TE ACTOR OF ACT NINKE - MINKE 142.01 IN GUISTUE THE KANGE NTILC - NINCUALE N. 2. 1.0.7F.1 FALSE OF SIMBM CIT. No. AP = 1 cook (Athawasa IPLAU : 5 I LIMBE : AC I JAUL 337

CHART FITTE - SUBROUTINE ZFFTIX.Y)

1v2.17--->1 hGIL ol n n n n n n n n n n n n n n n n

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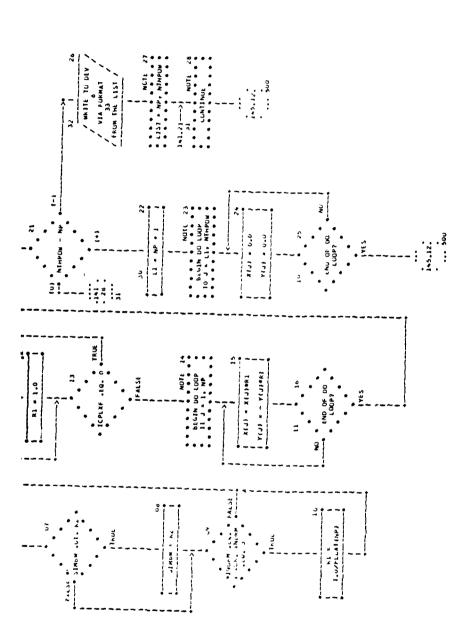
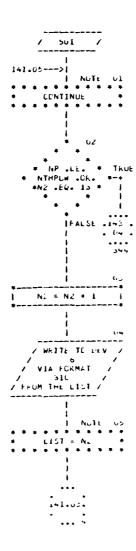


CHART TITLE - SUBROUTINE EFFTIX.Y)

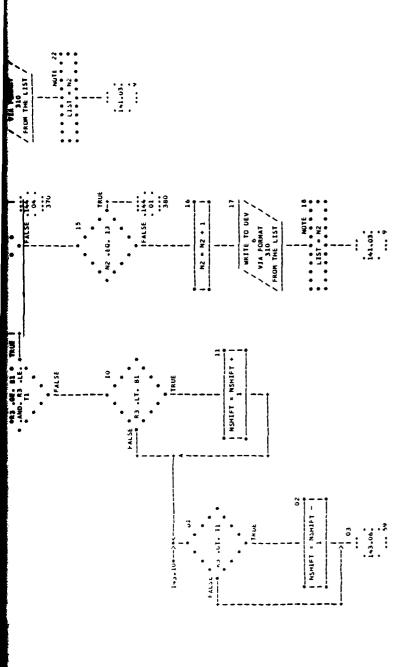


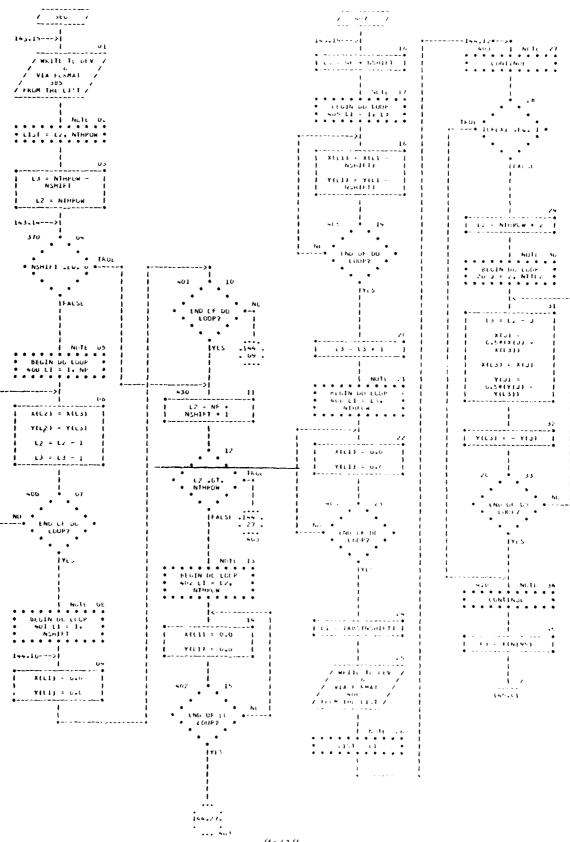
смая III с. - завиштив. 264111,111 - 2 2 2 2

|  | +U+   14  • N2 - KU- 13  • N2 - KU- 13  • PAISE - 144  • PAISE - 1 | WRITE TO DEV / VIA FURMAT / SIO / FROM THE LIST / LIST   L |   |
|--|--|--|---|
|  | 60 12<br>• NSHIFT LIT, 0   | 12 . L L   | 380<br>1 16<br>1 16<br>1 16<br>1 16<br>1 16<br>1 16<br>1 16 |
| 142.02—>  04<br>R1 = XIN194) • ESHIFT<br>ESHIFT =   FAMILY =   1 | (43.03 ->   0.6   1.8    |  | IRUE 111 111 111 111 111 111 111 111 111 1                  |
|  |  |  | 10  |

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A CONTRACTOR OF THE SECOND





| 144.53===>4                             | 1 411   No.Te is                             |   | 1 76                                     |
|---|--|---|--|
| • • •                                   | • • • • • • • • •                            | 1 1 1                                   | . 1603 + 51*(*2 ~ )                      |
| racit +1/e, racin +                     |  | 1 1                                     | 1 142 * (141, * )                        |
| *==== * * * * * * * * * * * * * * * * * |  | , | i  |
| 1                                       | 1  | 1                                       | Aluch = c2+161 =  <br>  Aluch = c2+111 = |
| · · ·                                   | 1   X(NLV+) =                                | 1 5                                     | 131                                      |
| 1000                                    | 1  | 1 1                                     | 1 YEU27 = \$2*(R1 - 1                    |
| i                                       | 1 114141 - 0.0                               | 1 () = (1+(" - 1 + 1                    | 1 K3) + C2+(11 - 1<br>1 13) 4            |
| 1                                       | 1 191./5*>1                                  | •                                       |  |
|   | 500 NC3E 1.                                  | i i                                     |  |
| •                                       | . CONTINUE .                                 |   | *** ***********************************  |
| 1   Faces published to the second to    | 1  | 1 . 1 = 4.4.4 + 1   1                   | X(J+) - CJ+(K2 +  <br>  14) - S3+(12 -   |
|   | 1 1 1  | 1 (1:(5 1 1                             | ( ×4)                                    |
| ·                                       | 1  | i i i                                   | Yough = Sample + 1                       |
| • 1/2                                   | I INDVERSEAT I I                             | 15 = 05 + 00 t =                        | 141 + C3+112 -  <br>  H41                |
| • • •                                   | 1 (NTMPUM3+X1N1953) ) 1 (                    | 1 5N = C1+SUEL + 1 1                    |  |
| FALLE # #                               | 1 N4PCH = N277                               | i snecore i i                           | į  |
|   | !  | 1                                       | 2 . 26                                   |
| · · · · ·                               | ; ;  |   | • • •                                    |
| i •                                     | 14   | • 0161N DG LCCP •                       | NU +                                     |
|   |  | • ε Styllic ÷ • 1                       | + END OF DO +                            |
| ; ;                                     | 1 • NAPOW .EQ. 0 •-+ 1                       | • LINGTH, NTHPUW, • f<br>• EENGTH • f   |  |
| 1                                       |  | • | 1 • 17ES                                 |
| (14                                     | • • • • • •                                  |   |  |
| K3 = 1.0                                | I IFALSE .145 . I                            | *                                       | i  |
| 1                                       | 1 -31 - 1                                    | IL = SECURC -                           | <b>!</b>                                 |
| •                                       | 1 13   | 1 J JI + NXILIH   1                     | į  |
| ••                                      | ; ; ;  | i i i                                   | • • • • •                                |
| LL = NITLZ                              | NOTE 15                                      | 1 J5 = J2 • NXTLTH 1   1                | • • • NO                                 |
| :                                       | # 5(GIN HO EUDP #  <br># 2 PASS = 1. NAPCH # | J4 - J5 + NX1(T6                        | ♦ END OF DO ♦-+                          |
| 1 mile vo                               | *      | !                                       | * LOOP? *                                |
| • • • • • • • • • • • • • • • • • • •   | 1 145.30>1                                   | 23 1                                    | • • • •                                  |
| • 404 g = 1, NTIL. •                    | 16 (   | F1 = X(J1) +                            | YLS .145 .                               |
|   | I NATETH = ZPPENZ = 1                        | xtJii                                   | ;  |
| 1 1 1                                   | 1 2 PASS1 1 1                                | K2 ÷ X(JL) =                            |  |
| 1 1 1 1 1 1                             |  | X(**)                                   | !  |
| 1 1                                     | SCALL =                                      |   | • 3x)                                    |
|   | PIZZORLE FELIAT    <br>    (LENGTHI)         | X(J4)                                   | • • •                                    |
| 1 1 KZ = Y(L1)+K3 1                     |  | 1 +4 - X(J2) - 4 (<br>4 X(J4) 1 1       | • • NO UF DO • • •                       |
| i Atlij - Xtuleka i                     | 1 1,   | ii                                      | • 1.00P7 • I                             |
|   | •  | į i                                     | · · · · · · · · · · · · · · · · · · ·    |
| UE VE                                   | CDEL =                                       |   | 17:5 .145 .                              |
| 1 1 Y(L1) - Y(J)*K3                     | Stret =                                      | 1 11 ± 44713 + 1 1                      | . 16 .                                   |
| 1 i 1                                   | USINISCALED                                  | i li                                    | •  |
| 1 1 x(1) = +1 1                         | CS = 1=000 1 1                               | 1 15 - A(11) - 1                        | 145.14>                                  |
| Y(J) = hc                               | 1  | 1 11 : Y(J, 1 + 1                       | 3 • 31                                   |
| 1                                       |  | Y1341                                   | •  |
| į i                                     | i i  | - 45U21 -                               | • # • INUE                               |
| 1 404 6 (4                              | i I NETE 16                                  | 1 Y(U+) ; 1                             | • N2 .Eu. • •<br>• 29N4PCH • [           |
| i Nu                                    | 1  | 1 1                                     | •  |
| ****** IND LF UL .                      | 2 3 2 1 WILLIA                               |   | •••                                      |
| • (1667 •                               | 1 1  | 4 x(J1) = F1 + F3 - ( )                 |  |
| •••                                     | •  | 1 7(011 ± 11 + 13                       | 1  |
| IYLS                                    | •  | i 1 1                                   | ,  |
| ļ                                       |  | 3(J)1) 4 (1*162 -                       | 1<br>1 NGTE 32                           |
| •                                       | !  | h 443                                   | * * * * * * * * * * * * * * * * * * *    |
|   | !  |   | • 4 J = L. NTHPOW, •                     |
| •                                       | •  |   | •  |
|   |  |   | :  |
|   |  |   | į,                                       |
|   | _  |   |  |
|   | 9-/  | 130                                     | 196.01                                   |

| +>#                                    | ·>• ·-   | >* *                                    |   |
|--|--|---|---|
| 1 1                                    | 1 10   | NUTL 24                                 | 1 32                                    |
| 1 × = x(0) + x(0 + 1                   | i i 14 = 1 i                                     | * LLYJ1 = J13, £14, *                   | • |
| 1 1 " 1                                |  | 113                                     | , NO                                    |
|  |  |   | • END CF DG •-•<br>• LUGF? •            |
| 1 1 A(J) = N                           | * * * * * * * * * * * * * * * * * * *            | 1 25                                    | •                                       |
| ) i                                    | + 7 J1 = 1, L1 +                                 | • 25                                    | • |
| 1 1 = 7(3) + 7(3 + 1                   |  | THUE .                                  | iYES -140 .<br>i . 16 .                 |
|  | 1 140.30>    NOTE 12                             | •• 1J .Gr. J1 *                         | ļ ····                                  |
| i                                      |  | • • •                                   | į                                       |
|  | * BEGIN DO LOOP *  <br>  * 7 J2 = J1, L2, L1 *   | * | i                                       |
| 1 1 140 + 1 - 1401 - 1                 |  | i IFALSE i                              | e e •                                   |
|  | 146.35>  NOTE 13                                 |   | * * NO                                  |
| i i                                    |  |   | * ENL OF DO *-+                         |
| 1 03                                   | * BEGIN DO LOOP *  <br>  * 7 J3 = J2, L3, L2 *   | 26                                      | * FPONS *                               |
| 1 + At=1 + 1                           |  |   | • • • •                                 |
| 1                                      | 146.34>  | i i I I                                 | 1 YES . 140 .                           |
|  | NOTE 14  | x(11) = x(21)                           | 1 • 15 •                                |
|  | * BEGIN DO LOOP *  <br>  * 7 J4 * J3, L4, L3 *   | x(JI) = 6                               | :                                       |
|  |  | 1 1 = Y(13)                             | į                                       |
| # 60 # #<br>+ END EF UL #              | 1 146.33>  |   | * 34                                    |
| * LUUP? *                              | NOTE 15  | *                                       | • •                                     |
| • •                                    | # BEGIN DO LOOP # 1                              | 27                                      | * END DF DG *-+                         |
| IVES                                   | * 7 J5 = J4, L5, L4 *  <br>  * * * * * * * * * * | 4                                       | * LULF? * !                             |
| 1                                      | 1 140.32>1                                       | )   Y(J1) = 1                           |   |
| į                                      | NOTE 16  |   | 1765 .140 .                             |
| 1-0-11> <br>  NUTE U5                  | # 6EGIN DU LOOP # 1                              | 7 1 28                                  | j • 14 •                                |
|  | 1 * 7 Jo * J5, L6, L5 *                          | 11=11+1                                 |   |
| * ELUIN DE LUBP * * c J = 1, 14 *      | 146.31>  | <u></u>                                 | ;                                       |
|  | NOT: 17  | ! !                                     | i<br>• 35                               |
| <                                      | * * * * * * * * * *                              | 24                                      | • • •                                   |
| 1 uo                                   | 1 + 7 J7 = J6, L7, L6 + 1                        | • • •                                   | * NO                                    |
| L(u) = 1   1                           | 1 146.36>1                                       | NO * * 1                                | • END OF DO •-•<br>• LOGP? •            |
| 1                                      | I NOTE 18 I                                      | + LCUP? •                               | • • {                                   |
| i _ i                                  |  |   | Tyes .146 .                             |
| 7                                      | * 7 J8 * J7, L6, L7 *                            | IVES                                    | 1 . 13 .                                |
| FALSE • • i                            |  |   |   |
| + a size he .                          | NOTE 14  | : :                                     | :                                       |
|  | 1 * 00739 = 38, 19, 4                            | i !                                     | i<br>• 36                               |
| •••                                    | * L8   | 30                                      | • •                                     |
| 1166                                   | : : :  |   | • NU                                    |
| 1 1 1                                  | NGTE 20 1  | • NO 6<br>• END OF DO 0-0               | • END CF DC •-•<br>• LUDY? • [          |
|  | * 007J10 = J9, L16, *                            | • LUOP? •                               | •. • !                                  |
| ا ا ا                                  | *   [4   6                                       |   | 1715 .146 .                             |
| L(J) = c**(Nc +                        | 1 1 1  | 17ES .146 . 1                           | 1765 -146 -<br>1 - 12 -                 |
| 1 - 01                                 | NOTE 21  | 1 .18 . 1                               | ····                                    |
| 1                                      | • • • • • • • • •                                |   | 1                                       |
| •                                      | 1 • 111, 110 • 1                                 | · · · · · · · · · · · · · · · · · · ·   | i .                                     |
| ė uy                                   |  | 31                                      | • 37                                    |
| •                                      | NUTE 22  |   | • • TRUE                                |
| e e Nu i<br>• END or Do e              | 007J12 = J11,                                    | • • NO j                                | * IFLAG .tc. 2 *                        |
| • EULP? *                              | 1 . L12, L11 .                                   | * FMD DE DO 4-4                         | •                                       |
| • •                                    |  | **                                      | ••••••                                  |
| 1AF7                                   | MOTE 23  | •  <br> YES .140 .                      | FALSE .148 .<br>  . 13 .                |
| ļ                                      | 1 0 007J13 = J12, 0 1                            | i . 17 - !                              | 15                                      |
| <b>†</b>                               | L13, L12   |   |   |
| i                                      |  | 1                                       | •                                       |
| Ų————————————————————————————————————— |  | •                                       | · <u>-1-</u> /                          |
|  |  | 9-13/                                   | 147.01                                  |
|  |  |   |   |

CARRITATE - SUBROUTINE 2FFI(X,Y)

| 09<br>  NP = NP =  <br>  B1 = R1 -  <br>  X(N195)/2.0 | 11 = R1 •  XIN1951/2-0  147.18—->  167.18—->  10  | WRITE TO DEV                                | **3 .GE. B1 TKUE  **ANO. F3 .LE.  **T1 | FALSE 8 . 17. 81   | 12        |
|---|---|---|--|--|-----------|
| 11 = NTI  | 1, J = 1, NTL2  1, J = 1, NTL2  1, L1 = 1, NTL2 | X(1) = Y(1)<br>X(1) = R1<br>O4<br>Y(1) = R2 | ENCOP?                                 | XINY 44 - K2   XINY 44 - X2   XINY 4 | FALSE 148 |

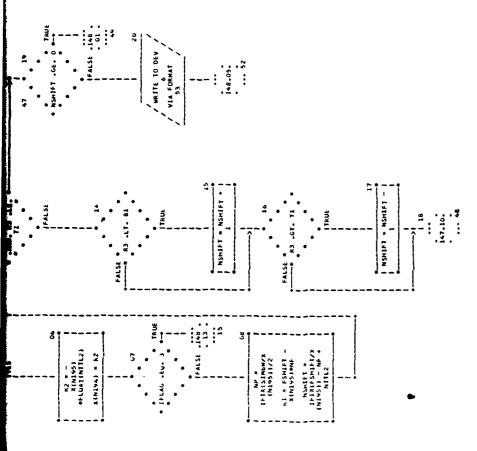
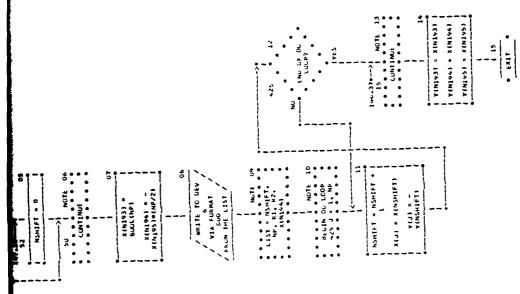


CHART TITLE - SUBREUTINE ZFFTEXOVI

|  |   | <u> </u>            |
|--|---|---------------------|
| 01<br>1FT - NP - 1<br>02<br>02<br>02<br>03   | TE TO DEV   LELIST   LELIST | 1 18 18 15 Es       |
| 147.14 - 111 | WAITE TO   WAITE TO | X(N193) = 0.00L(NP) |
|  |   |                     |

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## CHART TITLE - NON-PROCEDURAL STATEMENTS

CUMMUN/BLK1/ BK1(500) DOUBLE PRECISION CDEL, SDEL, CS, SN, CT, P12, SCALE EQUIVALENCE ( N2 .BK1(1)) .(FSHIFT, BK1(15)) .(ICPLXI, BK1(6)), (ICPLXF.BK1(7)) .(SIMBW.BK1(4)) .(INORM .BK1(9)) DATA P12/6.2831853066700/ DATA N193.N194.N195.N196/-3.-2.-1.U/ REAL X(1),Y(1),I,I1,I2,I3,I4 INTEGER PASS. SEQLOC. L(14) EQUIVALENCE (J.JI), (N4PON.J5), (PASS.J6), (NXTLTH,J7), (LENGTH,J8), (SEQLOC,J9), (ISCALE,J10), (IARG.J11) , (A1,J12) , (C2,L1), (C3,L2), (S1,L3), (\$2,L4),(\$3,L5),(R1,L6),(R2,L7),(R3,L8),(R4,L9), EQUIVALENCE (L14,L(1)),(L13,L(2)),(L12,L(3)),(L11,L(4)), (110.115)),(19.1(6)),(18.1(7)),(17.1(8)),(16.1(9)),(15.1(10)), (L4.L(11)).(L3.L(12)).(L2.L(13)).(L1.L(14)) FURMATE NUMBER OF INPUT SAMPLES . 14. EXCEEDS SPECIFIED TIME . 33 1 SPAN=2\*\*N2=1,14) 310 FURMAT (\* THE SIZE OF THE TRANSFORM ARRAY HAS BEEN EXPANDED\*, 110 2001.121 800 FURMAT(1H ,2110,6E15.6) FORMATI! THE NUMBER OF ARRAY ELEMENTS REQUIRED AFTER HETERODYNING! 15. \*EXCEEDED AVAILABLE STORAGE...ARRAY REDUCED TO\*.15. \* BY DELETING HIGH FREQ TERMS\*) FORMATI \* NUMBER OF LOCATIONS REQU AFTER HETERODYNING . 406 \*EXCEEDED AVAILABLE STORAGE...\*,15,\* ELEMENTS DELETED\*, \*FRUM NEGATIVE END OF ARRAY\*) 53 FURMAT(\* THE VALUE OF NSHIFT IS NEGATIVE...NSHIFT SET TO 0.) FORMATTIM .\* THE SUM OF NSHIFT .110. AND NP .110. IS GT NTHPOW .. NSHIFT SET TO 61)

## LHART TITLE - SCONEULINE NENEALOS

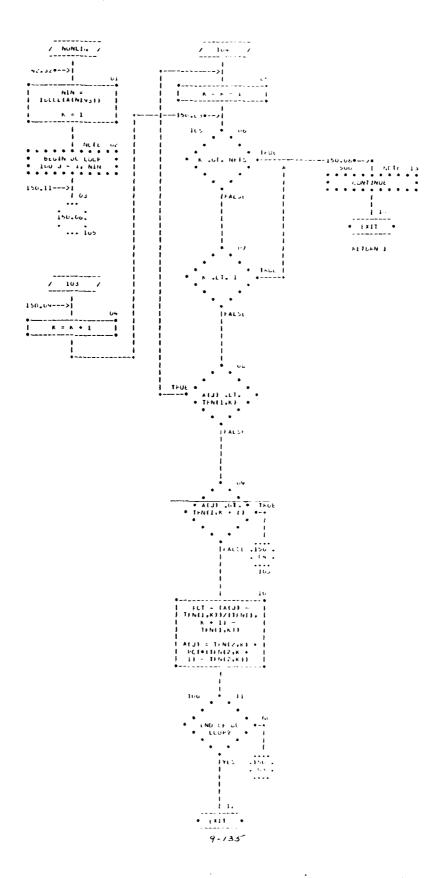


CHART TAILS - TUN-PROLECURAL STATEMENTS

CUMPUN/BLK1/6K1(500)

DIMENSION A(1), TEN(2,50)

ELLIVALENCE (BK1( 21), 10MY

-

1. ICKHI CTH, NFTS

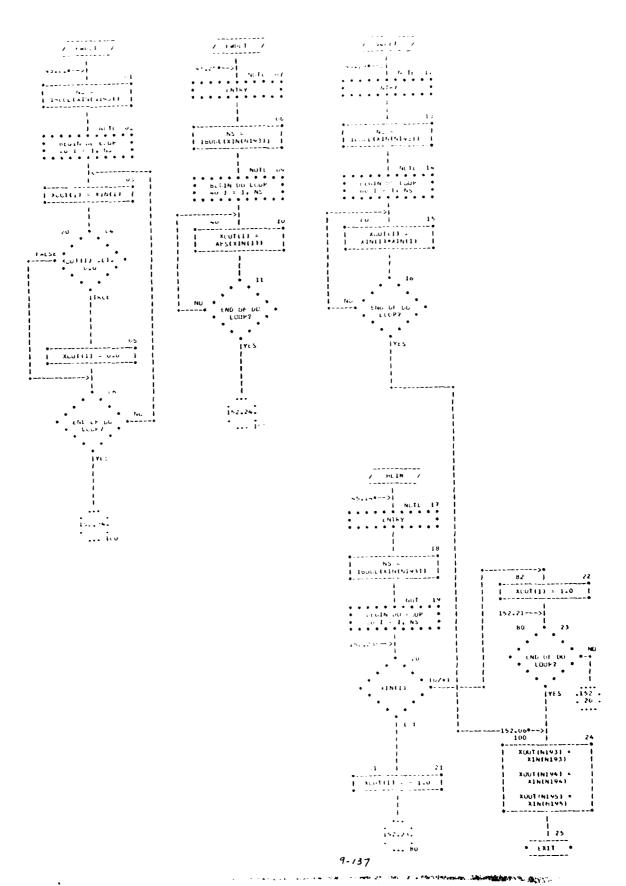
(BK1(201), TEN(1.1)

UATA N293,N194,N195,N196/-5,-2,-1,+U/

GENERAL DYNAMICS FORT WORTH TEX CONVAIR AEROSPACE DIV F/6 17/9 ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING, VOLUME II. PARA-ETC(U) JUN 76 R J HANCOCK, F H CLEVILAND F30602-73-C-0380 AD-A102 783 RADC-TR-76-186-VOL-2-PT-2 NL UNCLASSIFIED 3 of #

! !\*

CLARE ELEC. - Complete Concettagoras off



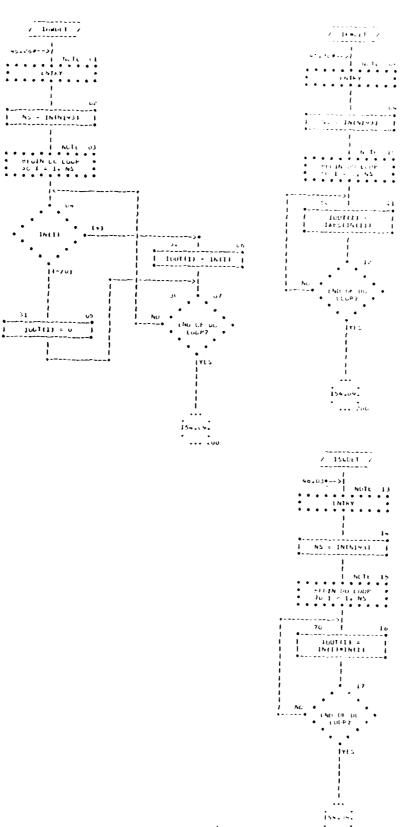
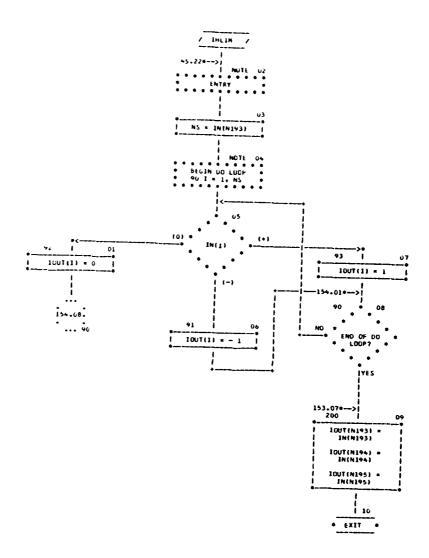


CHART Tales - SUBROUTING MMUET(XIN, XUUT)



## NON-PRUCEDURAL STATEMENTS

USHENSION XIN(11,XOUT(1),1N(1),1OUT(1)
UATA N193,N144,N195,N196/-3,-2,-1,0/

|            |         | 10     | COEFIGN) =    | A1 # A2        |          | FLG = 0.5 |                  | 100 17 |                 | t topps | •          | , AFS  |   | « ·   |                    | ANTP(2.L) + BSIT | COEF(2,1) = A1              | COEF(3,L) = 81 | 1          |    | COEFTIAN #     | COEF(2.M) = 0.0 | COEF(3,M) * 0.0 | - COLETONIA - 0.0 1 | #              |             | •                             | / WRITE TO DEV /                             | VIA FORMAT        | / FAON THE LIST /     |                        | 2   | / WRITE TO DEV / |
|------------|---------|--------|---------------|----------------|----------|-----------|------------------|--------|-----------------|---------|------------|--|---|-------|--------------------|------------------|-----------------------------|----------------|------------|----|----------------|-----------------|-----------------|---------------------|----------------|-------------|-------------------------------|--|-------------------|-----------------------|------------------------|-----|------------------|
| 28 -       | MLTE 07 |        | COF (1, 76) * | NP12 = NP1 - 2 | A1 = 0.0 | B1 # 6.0  | 0.0              |        | FL6 = 1.0       |         | 1 MOTE 10  | * BEGIN DO LOUP * 100 K = 1,00 |   | -   ; |                    | 415              | (ANTP(1,K) - 1   ANTP(1,L)) | ANTP(Z.E.)     |            | 15 | (ANTPOLYK) - I | /(ANTP(2,K) - 1 | A2 = (XY12 -    | TATESTATION (C.L.)  | <br>2          | 62 = XY12 - | AVTP(2,L) + 1 1 2.0985179 1 1 | 1 1tmp = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | C2 = ANTP(1,4R) - | 1EMP0(A201EMP +   62) | <br>  C2 * ANTP(1,K) . | 62) |                  |
| / ANTINE / | 42.05>  | . TRUE | •             | IFALSE<br>I    |          | 29<br>    | LOLF [1,1] = 0.0 | *      | Cuth(3,1) = 0.0 |         | <b>6</b> 0 | 1 cut 1 (1,42) = 360.0 1   | 4 |       | 1 CLEF (4.2) = 0.0 |                  | š •                         | •              | NPI -NE. Z |    | IFALSE         |                 | 6               | CCEP(1-1) = 1       | CUEF (401) # 1 | COEFCL.23 = | ANIP(2,2) + 6517              | 90   | Lut + (1,76) =    | 7 × 144               |                        |     |                  |

4/11/39

CMAN TITLE - SUBRUCTINE ANTINTINPTABSITANTP-COEF)

| ANTP(2,8) - 6517 | COEF(2,M) = 0.0 | LOLF13,M) " 0.0 1 | 1 0.0 = tmp4+100 + | <u>-</u>     | 40   NOTE 20 | CONTINUE CON |                                  | 77 | / WRITE TO DEV / | VIA FORMAT       | / 95 /<br>/ FADM THE LIST / |   | . — - | 77 310N 1 | + LIST × NPT, BSIT + | •<br>•             | 7   | / WRITE TO GAY | / VIA FURMAI / 105 | / FKOM THE LIST / |               | NOTE 24 | • (151 •      | # ILANTPIJSKIP # # # E E E E E E E E E E E E E E E E | . L = 1,461.K = 0 | * "**** * * * * * * * * * * * * * * * * | <br>52 | • EXIT • |  |
|------------------|-----------------|-------------------|--------------------|--------------|--------------|--|----------------------------------|----|------------------|------------------|-----------------------------|---|-------|-----------|----------------------|--------------------|-----|----------------|--------------------|-------------------|---------------|---------|---------------|--|-------------------|---|--------|----------|--|
| / ANTHION)       | I ANTPEZ,MI)    | AZ = (XV)Z =      | - ANTP(Z-M3)       |              | 61           | B2 = XY12 -     A20(ANTP(2,K) +  | 1 ANTP(2,L) +    <br>  2,0085ITF |    | ANTPLZPK) + BSIT | CZ * ANTFILOR) - |                             |   |       |           | 1 C2 * ANTPOLISK! i  | + elazeanTF(Zzk) + | 821 |                | <br>COEF(1,4K) = 1 | ANTPIZ,K1 + 8517  | COEF(2,K) = 1 |         | FLGe(61 + 62) |  |                   | •                                       |        |          |  |
|                  | ➡ ~             | 60                | CLEPGIOLI =        | CUEF (4+1) * | ANTPELLET    | LDEF(1,2) =     ANIF(2,2) + BSIT   |                                  | 90 | 141.             |                  | Nr1 + <                     | - |       | -:        |                      |                    | 9   |                |                    |                   |               |         |               |  |                   |   |        |          |  |

01/44/10

AUTOFILM CHART SET - FWC/SCL RADSIM

CHART TAKE - NUM-PROCEDURAL STATEMENTS

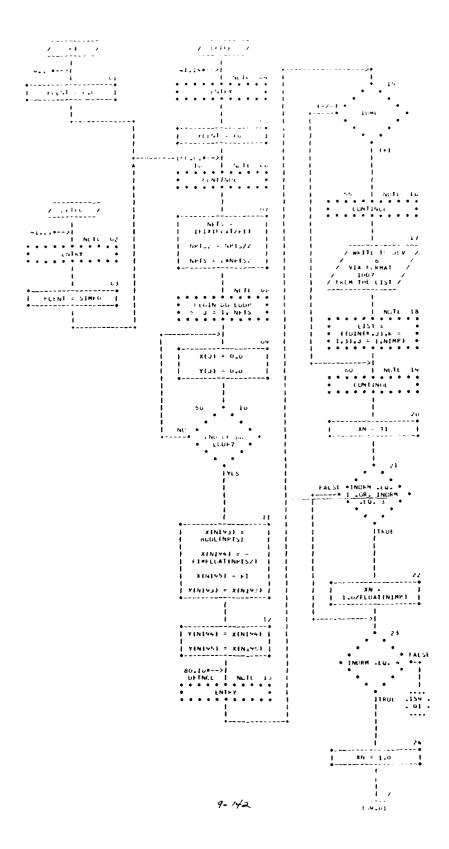
DIMENSION ANTP(2,75), COEF(4,76)

ESIT = ", 1PE13.7) NFT = 1,15, " FURMATOTHI, "SUCKOUTINE ANTINT 3

FURMAT (1H \$6(1PE20.7))

11.71

THATTER BELLEVIS - LITTER TANKS



1

CHANT TITLE - SUBROUTINE DETIXATE

LUGP? 75 | NOTE 19
CONTINUE ---• TRUL SN = SN\*ALUEL + 1
TEMP\*ASDEL + 1 X(K) = X(K) + CS CS = CSOALDEL -SNOASDEL Y(K) = Y(K) + SN PASS .NE. 1 K = K + KDŁL TEMP = CS 004 VIA FORMAT DELPS = {DELPH -AINTIDELPH}}\*P12 FS = (pH -K = NFTS2 + 1 CS = CLS(PS)\*A SN = SIN(PS)\*A ACGEL = ASDEL = KUEL = 3 Thut

A = DIN(5,2)\*Kh

1

PH = - FCLNT+T +

1 = DIN12.J)

UELPH = - F1+1

IVASS = 1

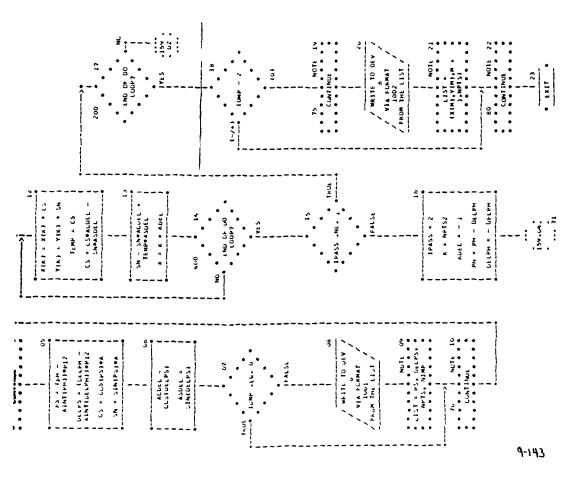


CHART TITLE - NUN-FROCEDURAL STATEMENTS

COMMON/8LK1/ 8K1(200),D1N(3,100)

EQUIVALENCE (SIMFO, 8K1(8)) , (FI, 8K1(11)) , (FEXT, 8K1(4)),

(NIMP.BK1(2001), (IDMP.BK1(21)), (FO.BK1(3))

.(INDRM ,8K1(9)), ( TI ,8K1(12))

X(1) . Y(1) DIMENSION UATA N193,N194,N195,PI2,D1/-3,-2,-1,6,2831853,2,777778E-03/

FORMAT(IH ,8E15.5) 1001

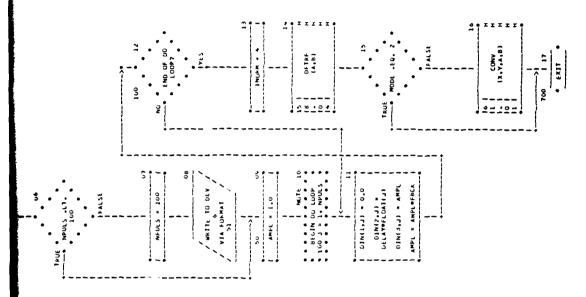
NIMPE NPTS= . 110. DELPH=',1PE13.6' FORMATI' PH=', IPE13.6' 1001

.,110)

FORMAT(1HO, 6E20.5) 1002

CHART BITCE - CUMBUCTINE RECFIX.Y.A.83

|   | 160 12<br>NO 6 100 100 100 100 100 100 100 100 100 1 | • "  | 1100RH - 4                                 |   |
|---|--|--|--|---|
| 46.04—>  46.04—>  10  10  10  10  10  10  10  10  10  1 | NFULS = 100  | / WRITE TO DEV / VIA FORMIT / V | AND TO | ‡ |
| 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                 |  |  |  |   |



(EART BATES - BUN-PHOLEDURAL STATEMENTS

CCMMCN/5LK1/ BK1(200), DIN(3,100)

DIMENSION X(1),Y(1),A(1),6(1)

EQUIVALENCE (BK1( 75), FbCK), (BK1(117), KcUbel),

(BKI(118), RECIRT), (BKI(119), 1helak),

(BK1( 77),DX ), (BK1( 7%), NKL#S ),

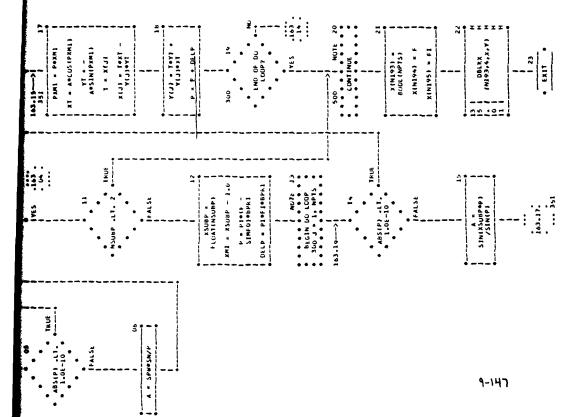
(8K1(200),NPULS ),(INURM, EKI(9))

FURMAT(\* RECEIVER PROCESSOR IMPULSE RESPONSE LIMITED TU\*, 7.

. 100 LCOP DELAYS\*)

CHART TITLE - SUBKEUTINE PAFRMIX, YE

|          |   |                                       |                   |  |        | 350   16      | 1 7 | PXM1 = P+XM1    | YT = Aesin(Pxh1) | - X+1 = (7)X | 91           | V(J) = Tey] - V(J) = Y (J) = Y | l         | 300 • 19          | MO                                     | • | 14ES   | <br>• •      |      |
|----------|---|---------------------------------------|-------------------|--|--------|---------------|-----|-----------------|------------------|--------------|--------------|--------------------------------|-----------|-------------------|--|---|--|--------------|------|
|          | 100 100 100 100 100 100 100 100 100 100                       | JO JUNIAUO                            | ! 4               | 7 5 5 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1  | 200 10 | LUOP?         |     |                 | = . · ·          | NSUBP .LT. 2 | i PALSI      | 12                             | KSUBP = 1 | XM1 = XSUBP - 1.0 | SIMFOJORPKI I I DELLO REPLICADORNI I I |   | Note   15   15   16   17   17   17   17   17   17   17 | <br><u>.</u> | 1918 |
| *0.130-> | NPT2 c<br>1F1X(5)MDVP11/2<br>NPT5 = 20MPT52<br>F c = F10MPT52 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 PECP = P145195W | NOTE 03   SECINO LOUP   SECINO LOUP   SECINO   SECINO | 63.16> | I (d)NES = NS |     | * ABS(P) -L7. * | • =              | 3            | J/NS.MAS = V |                                |           |                   |  |   |  |              |      |



08/11/75

CHANT TITLE - NON-PROCEDURAL STATEMENTS

CCMMCN/BLKI/ BK1(500)

EQUIVALENCE (SIMFO, BK1( 8)), (SIMBW, BK1( 4)),

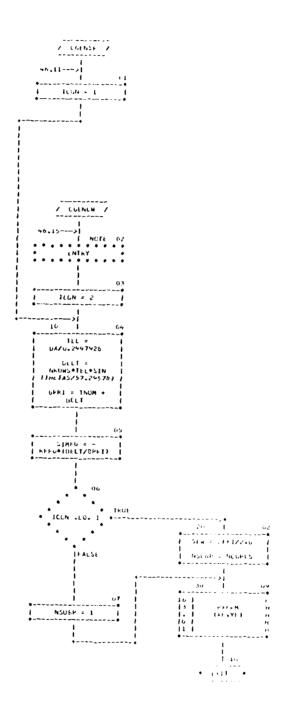
(Fi, 8KI( 111), (SPW, BKI( 95)), (NSUEP, BKI( 96)),

(6PKI,8KI(114))

DIMENSION X(1),Y(1)

LATA PI,N193,N194,N195/3,1415926,-3,-2,-1/

CHART ITTE - DUDNOGTTHE CORNERSTATION



## MEN-PALLELLINAL STATEMENTS

CUMMENZALETZ BETTOOLT

olmension FFII), viii)

ENDIVALENCE COMPLETE LIFERCHIE ENGINEER L'OFFICH MIN FIL DOLL.

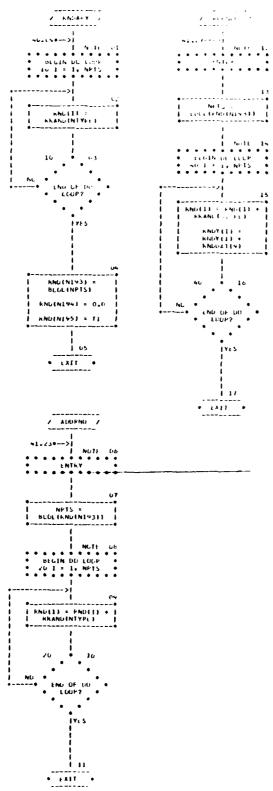
CHARLESPERIE PRESSEDENCES IN STREET CONTRACTOR

Commission with a commission and a Commission of the commission of

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9-150

CHARA IITLE - NUN-PRUCEDURAL STATEMENTS

COMMUN/BLK1/BK1(50C)

CUMMUN/BLKRND/ RNDDAT(141)

**UIMENSION RND(1)+RNDY(1)** 

EQUIVALENCE (BK1( 44), NPTS ), (BK1( 45), NTYPE)

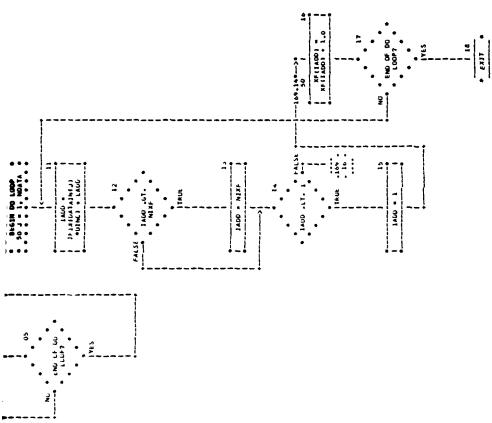
EQUIVALENCE (BK1( 12), TI)

UATA N193.N194.N195.N196/-3,-2,-1,0/

NIXF ... | NUTE 10 | BEGIN DU LUOP | SO J F 1 NOATA | SO J F 1 NOATA | SO J F 2 NOATA | SO J F 3 NOA | MLTE 00 1000 | NOTE OB | DIMC \* 1.0/UIMC 1 1- 1 X (DATAIN (L.) + 1 - 1 X (DATAIN (L.) + DINC.) + LAUG DINC = XF(N145) LADD F ADD PUINTS TO PROB-NDATA = 18UGL (DATAIN (N193)) FALSE TADO GT. / CUM2 / IADO = NIXF | NUTE 03 20 1 0.0 1 xf(1) = 0.0 f old the cold of CACCUCATE HISTOCKAM | X+(N)+4) = PLIM END LF DU ... LACD # 1 -IPIXIBLIMZDING) XFINIVS) = DINC / CURUIS / AF (N150) = buul (LAbb) ç XF (N) V3) = EUCL (N) XF) 34.15.0--> • 7 9-152

--169.146-->0 50 | | KF(1ADD)

1400 .17. 1



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Same Start also consistent

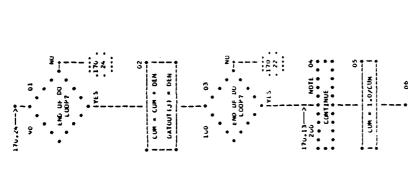
and the second

than lille - toercollne tumpitersfallert

| ,0.05e-> <br>,0.05e-> <br>,0.05e-> | 15 150N = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | TRUE   | 18   18   19   19   19   19   19   19 | DATOUT IN1 95) = 1 OATOUT IN1 95) = 1 OATOUT IN1 PACK I)   1 OATOUT IN1 PACK I)   1 OATOUT IN1 PACK II I OATOUT IN1 PACK II I OATOUT IN1 PACK II II OATOUT I | CUM = 0.0  | 171.03> 22 DEN = 0.0 1J = JJ • NDFACK   NOTE 23 EBEGIN DO LODE 90 K = 12, MDFACK   90 K = 12, MDFACK   90 K = 12, MDFACK |
|------------------------------------|---|--------|---------------------------------------|--|--|--|
|                                    |   |        |                                       |  | ;  | EC   11<br>  DATUT(1) : CUM  |
| 20,011-2)   NOTE OF                | CALCULATE COMULATIVE PELCE USTRIBUTION        | 1 TRUE |                                       | OHUCFLOAT   | MUTL OF PECIN CLUDY PECIN CLUD | NU11 OB  N1 N 1 1 N P A C C C C C C C C C C C C C C C C C C  |

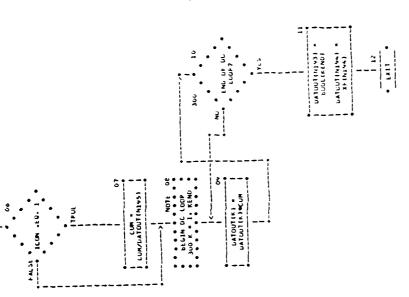
| Name      | KEND #   | 5              | DIMC = XP(MIV);                         |
|--|--|----------------|---|
| UNIVERSICAL      |  |                | NI XF /ND PACK                          |
| 10   | DINC OF LOAT A   | ¥0             | DINC&FLOAT                              |
| 13 - NCPALK      |  | -              | (NOPACK)                                |
| Mult ub   Mult   | ,;5<br>  |                |   |
| Null use the property of the   |  |                |   |
| Null us   Null   |  | 7              | :                                       |
| Null   |  |                |   |
| Cum = 0.0   1  |  | ,              | 20                                      |
| NOTE      | 310w   |                | ١.                                      |
| 1  | CIN UL   | •              | 1                                       |
| WOIL   CON   | * * * * * * * * * * * * * * * * * * *  |                |   |
| 13 - 34 - NCP4CK   100   100   13 - KHD  13 - 34 - NCP4CK   100    |  |                | 1 NOTE 21                               |
| 100 J 1 1 6440   101 J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |  | ,              | 20 21                                   |
| Natt of   Natt of   11   11   12   13   13   13   13   13  | * NCPECK   | ٠.             | ;:<br>;:                                |
| NG   NG   NG   NG   NG   NG   NG   NG  |  |                |   |
|  |  |                | -                                       |
| 10   10   10   10   10   10   10   10  |  | -              | ١.                                      |
| DATUMILIAN - LUM   NOTE   NO   | SECTION OF COURSE OF THE PROPERTY OF THE PROPE |                | :                                       |
| 10   |  | 11             | 3                                       |
| MG   |  | į -            |   |
| VOW = CUM + 1  NO  | - ho   | •              | 1 NOTE 23                               |
| 171.01>1  | #773 =   |                | tern Do                                 |
| 171.01>  100   | ٠ (  | •              | K = 1, MUPACK                           |
| 10 100 10 10 10 10 10 10 10 10 10 10 10  |  |                | - ;                                     |
| 100 to 10 | •<br>•   | •              |   |
| 1713.01  1713.01  1713.01  1713.01  1713.01  | 27 ******  |                | 1 |
| 171.067  |  |                | XF (K + JJ)                             |
| 1 100 - 1  | I CNC LF   |                |   |
| 15 1.00 × v 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.  | •  | 2              |   |
| 100 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  |  | <del>-</del> - | -                                       |
| 3  | l ves  |                | 171.61                                  |
| 100 LT.  |  | 2              |   |
| 111.00   | 1001   |                |   |
|  | •  |                |   |
| 101.00   |  |                |   |
| 171.54   | •  |                |   |
|  |  |                |   |

CHART TITLE - JURNOLINE CUNDISCUATAIN, XF.)



| MOTE OF | MOTE CUM/DATOUT(N195)

LATOUTK) = | UATOUTK) = |



1 cum = 1.0/cum 1

CONTINUE

CHART TITLE - NON-PRUCEDUKAL STATEMENTS

CUMMLN/BLK1/8K1 (500)

PIMENSION DATAIN(1), DATOUT(1), XF(1)

EQUIVALENCE (PKI 39), TLIM

(BK1( 40), BLIM

), (5K1( 41), NIXF

(BK1( 42), NCPACK

1. (EK1 ( 43), NDPACK

UATA N193,N194,N195,N196/-3,-2,-1,0/

9-155

| - SUCHECTIVE NIDECETA, Y, M. P.         |       |
|---|-------|
| - SPINEES IN                            |       |
| ======================================= |       |
| Chan Islee                              | 9-156 |

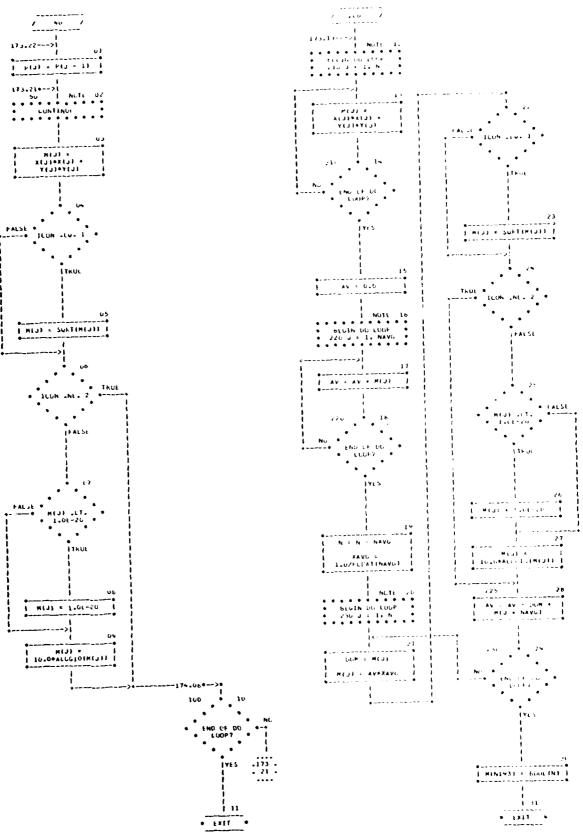
|  | 1 P (MIVO) 0.00 1  1 P (MIVO) 0.00 1  100 1 0.00 0.00 0.00 0.00 0.00 | **************************************             | 23<br>(14) (14) (17) (18) (18) (18) (18) (18) (18) (18) (18 |
|--|--|--|---|
| 36.114-7  NUI 10 1 NU | 14 15 1 DBEKK H H H H H H H H H H H H H H H H H H                    | 13   DOLKX   H   1   1   1   1   1   1   1   1   1 | 10 17 17 17 17 17 17 17 17 17 17 17 17 17                   |
| 35.15>1<br>60.4 0<br>10.0 1.0<br>10.0 1.0<br>113.12:   |  |  |   |
| 38.00> <br>  10.00 + 2   | 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                              | 36-21> MCT: VA ENEY  10.0 - 0  10.0 - 0            | 173.12 10 10 38.13> Mult. 06 Mult. 06 Mult. 06              |

0.006 P(J) = | Aleayanz(Y(J), | X(J)) 1 26 1 26 1 30.02: 

MFMAS = 1

35-13--->} | MUTU | MUTU | WENT | WEN ACON = A 173.12

CHART TITLE - SUBSCRIBE - REPUBLATARAPI



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CHAKI IIILE - NON-FROCEDURAL STATEMENTS

9-158

CCMMUN/SLKI/ FK1(500)

EUDIVALENCE (SK11 361, NAVG)

DIMENSION X(1),Y(1),M(1),F(1)

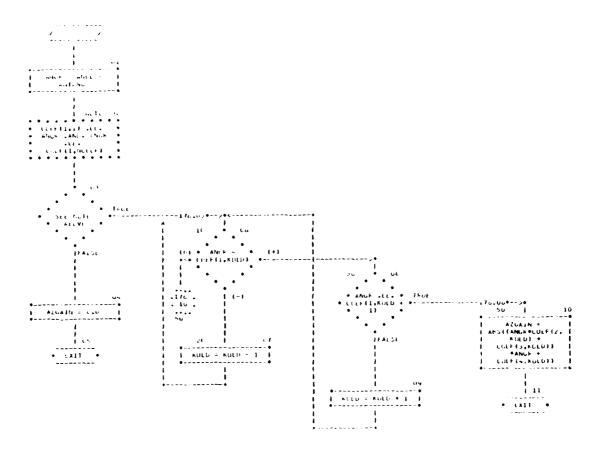
KEAL M

UAIA NESS.N196.N4/-3.0.4/

UAIA AI/57.24578/

. . . . .

Cartifate make a considerable



AUNTHOCEOURAL STATEMENTS

CUMMONZAZFATZ CORFINGETS STALLER COMEN /BERT/ FRIESUOF Calibration Cantano, Helitti DATE P. LUZZZ

9-159

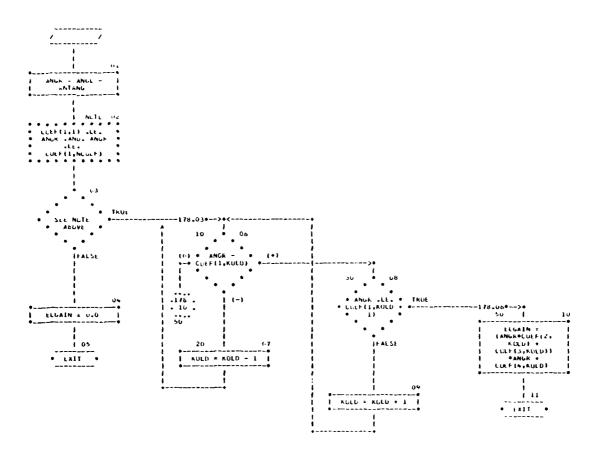
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1

1 1

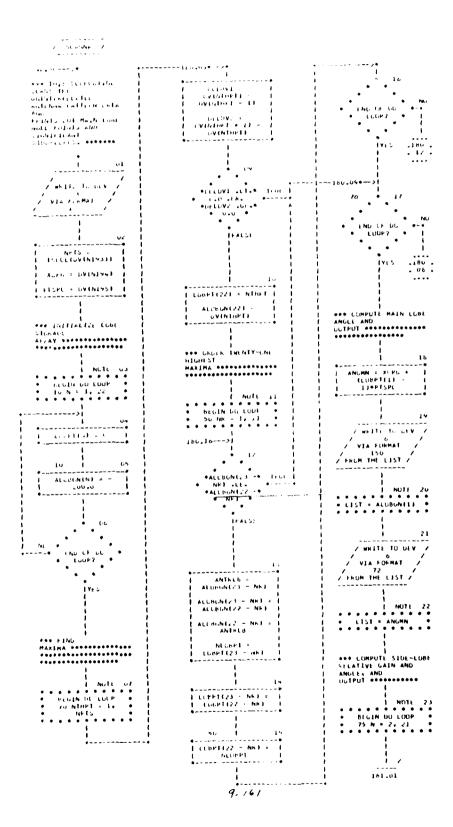
The second secon

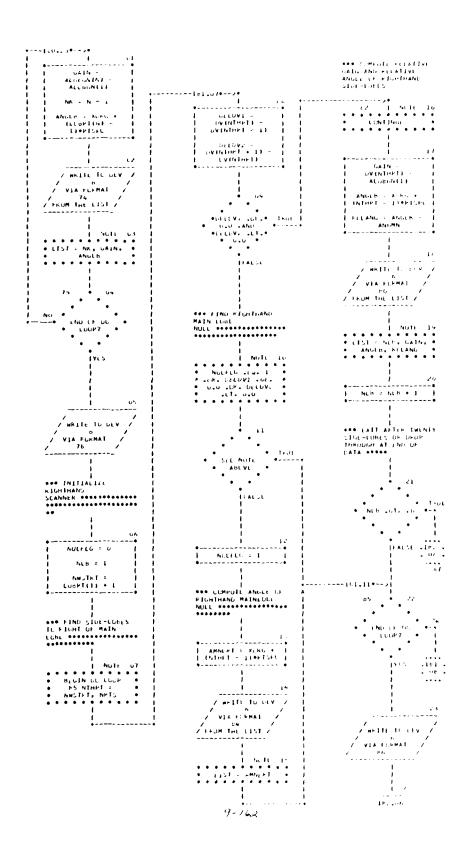
CHART TITLE - FUNCTION COMMINIANCE



## NON-PROCEDURAL STATEMENTS

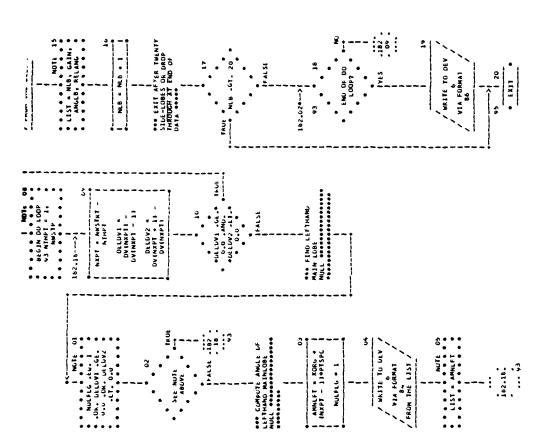
CUMMUN/ELPAT/ CUFF(4,75),NCHEF CUMMUN/BLKL/ BF1(506) EUULVALENCE (ANTANG,BK1(1~1) DATA RICCZI/





Chaki Titte - Suchouline Scannelov)

|             | OOO COMPUTE RELATIVE<br>CAIN AND RELATIVE<br>ANGLE OF LEFTHAND<br>SIDE-LUBES O | 90   NDTE 12<br>90   NDTE 12<br>CONTINUE   | er Taylor           | ANCES TORS OF INVESTMENT OF IN | RELANG " ANGEB - |                     | / WRITE TO DEV /                 | / VIA FURMAT /<br>/ B9 /<br>/ FRUM THE LIST / | 1204                           | S, GAIN, | ANGL      | <u>.</u>  | NE NE + 1 | FER THENTY SIECE LOSES OR DROP | THROUGH AT END OF DATA **** | •               | TRUE                     | •               | I PALSE                               | - <u>-</u> - | 66                          |               |
|-------------|--|--|---------------------|--|------------------|---------------------|----------------------------------|---|--------------------------------|----------|-----------|---|-----------|--------------------------------|-----------------------------|-----------------|--------------------------|-----------------|---------------------------------------|--------------|-----------------------------|---------------|
| 1E1.210->-> | , tb   | LEFTHARD SCANNER Descenses terressessesses | 1 NWSTKT = LOBPTILL | NESTO " NESTRI - 1   | NULLC = 0        | *** FIND SIDE LUBES | TO LEFT OF MAIN LOBE CONCENSIONS | 1 MO16 08                                     | BEGIN DU LOOP<br>43 NTHPT = 1, |          | 182.16>1  | NXPT = NWSTRT - 1   | 0kL0v1 =  | DLLOV2 =                       |                             |                 | • 66 LUVI . 64. • THUE I | -               |                                       | dvi s        | MAIN LUBE NULL CONFESSIONES |               |
|             |  |  |                     |  |                  |                     |                                  |   |                                |          | I NGTE OI | <ul> <li>NULFIG .tu. 1</li> <li>.Ok. DELDV1 .Gk. #</li> <li>.o.u .Ok. DELDV2 *</li> </ul> | . LI. 0.0 | 20                             | • SEE NUTE •• • ABUVE • •   | 1 PALSE . 187 . |                          | PL TANK TERMINA | LEFTHAND MINLOBE NULL sessessessesses | 30           | I AMMLFT = MORG + I         | 1 100,FL6 = 3 |



9-163

CHART TREE - NUMBER CLUDERE STATEMENTS

DIMENSION LOBPT(22), ALIBEN(22), DV(1)

VAIA N143.N144.N145.N196/-5.-2.-1.0/

ELUIVALENCE (NPTS, XPTS)

FLEMAT (1HU/47X, \* \* \* \* ANTENNA LUBE SCHANER \* \* \* \* / / /

FLAMATIC THE MAIN LIBE GAIN IS "+F13-71 11:37

PURMATIC THUS 34X. \*LUCATION AND RELATIVE GAIN OF MICHEST 20 SIDE L UECS! / 35% 'KANK', 17%, fill. GAIN', 16%, 'AMME' / 58%, ( DB )', 16%, \*( DEG 1" // 35X, \*MAIN \*, ZUX, \*U.U \*, 17X, F15.71 7

FULMAR ( 36X# 12, 18X# F15.7, 14X\*F13.7) 7

FORMATITHISTIX, "MAIN LCCE NOLL AND FIRST TO SIDE-LOBES TO RIGHT OF 35

(ABLVE) MAIN LORE"

9-164

/JEX+"KANK",13X,"KEL. GAIN",15X,"TRUE ANCLE",15X,"KEL. ANGLE"

/ 57X+\*( bu )\*\*16X\*\*( beb )\*\*16X\*\*( beb )\* /)

UNMATICSOX, \*RAIN LUSE \*, 4X, \*\*\* NULL \*\*\*, 15X+F13.7) 4

FURMAT ( 34X,13,2(15X,F15,7)) 3 3

PRIMARI 43X, THE FULTHER SIDE LUCES ON THIS SIDE! I

FURMATITHO/22X, MAIN LORE NULL AND FIRST AT SIDE-LORES TO LEFT OF ž

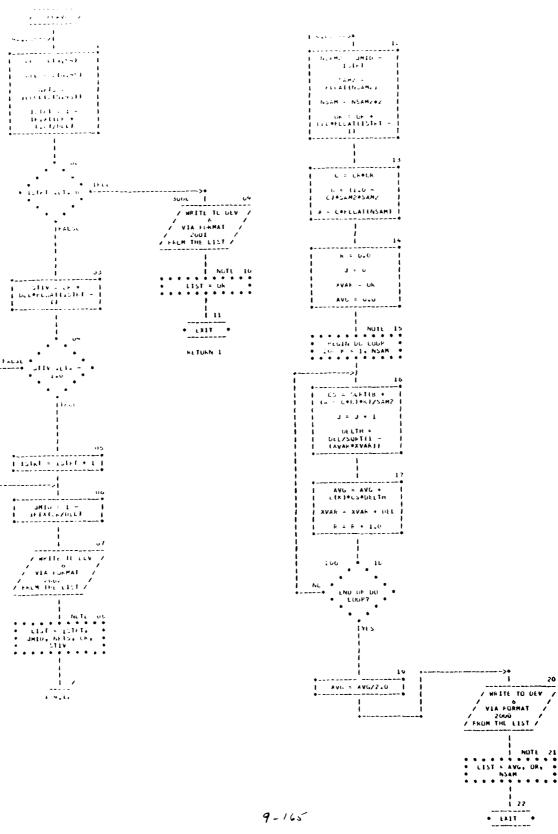
CELLUM MAIN LONE"

/JENGTHON OF SEXTEN GEINT SETTEUR GEVER THE ANDLE

7514, ( 5L )\*, 16X, ( 5EC )\*, 15X, ( 6EC )\* / )

F. FRAT (29X+ 15+ 3(15X+F15+7))

. . . . .



LNAK! IIILE - NUM-PRUCELUKAL STATEMENTS

CIMENSÍCN E(1)

LAIA N. 43, N194, N145/-3, -2,-1/

UCE FURMAT(IH ,3115,2E15.5)

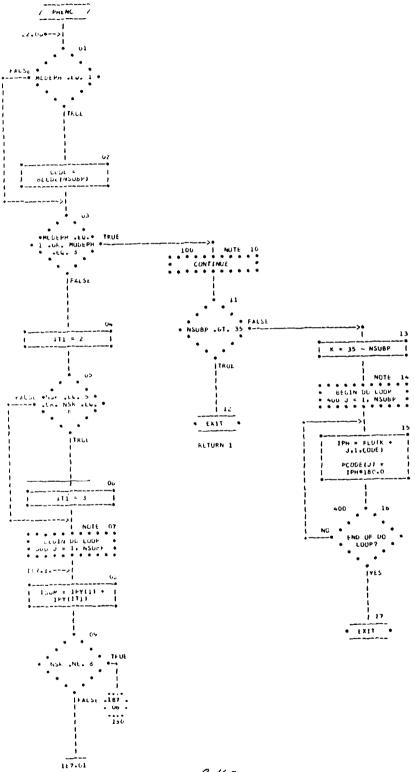
FURMAT(1H . AVG=".E15.7" UK=".E15.7" NSAM=",110 ) 2000

FURMATOH . THE ANTENNA PATTERN IS NOT DEFINED OVER ALL VISIBLE S Too?

PACE....AVERAGE POWER EVER ALL SPACE NOT DETERMINABLE.,// UKIGIN=

1.15.71

CHART TITLE - SUBROUTINE PHENCEST



9-167

LNAKT TITLE - SUBKLUTINE PREMCES)

1 0 WAG 1 1 15UM # C 15b. u4-->0 1 15um = 15um + 1 1 19t(+) + 19v(5) FALSE SUM . E.C. 2 1508 = 1 FALSE \* 15UM .EU. 4 ----FALSE 15

| PCUUE (3) = | Ibc.001PY(1) I IPVINSH + 13 =

1 Petro - Detre - 1 NOTE OF STREET O PCUNE (3) = 122,001PY(1) D = MDK = 0

07/11/70

CHART TITLE - NUN-PRUCEDURAL STATEMENTS

CLMMCN/BLK2/ 812001,PCGUE13G01

EQUIVALENCE (8( 96), NSUBP), (8(185), MUDEPH), (B(184), NSE

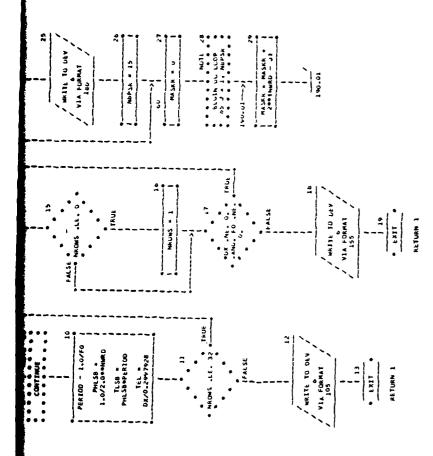
) . (8(186), IPY(1) )

(8(194), CODE

DIMENSION IPY(8), BCCDE(13)

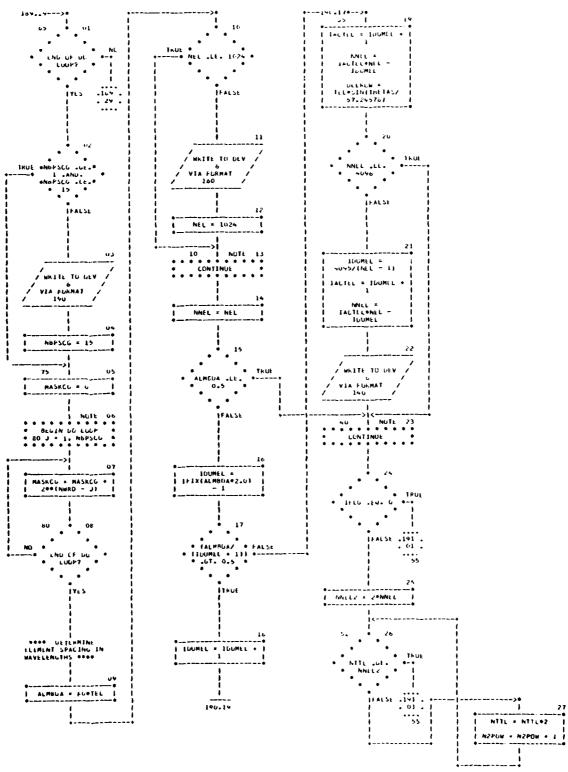
UATA 6C0DE/U0.01.01.02.62.00.015.00.60.60.6355.60.0312/.N1/1/

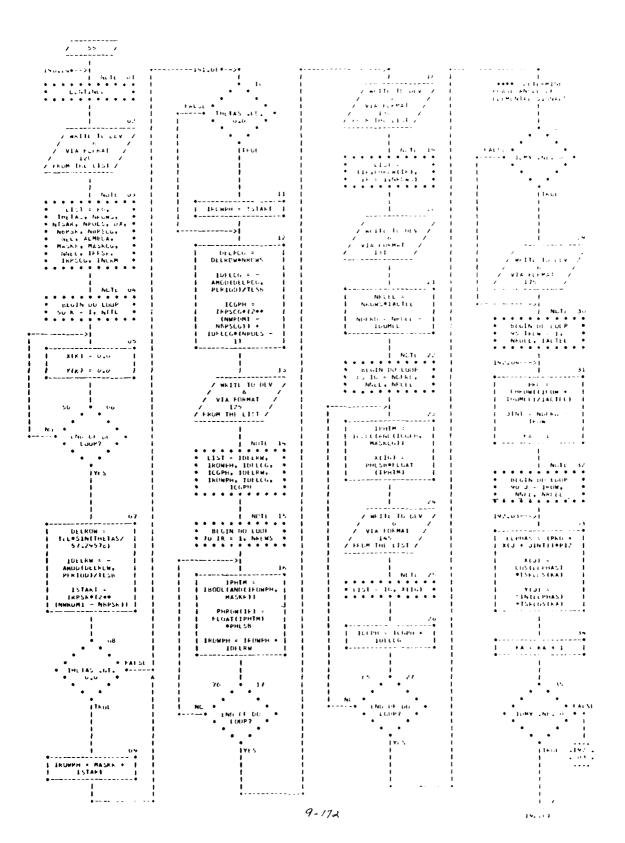
| NUTE 28 | NUTE 28 | SECTION | NUTE 28 | SECT I MASKK . MASKR . WHITE TO DEV MEL = NTSAKONKUMS MASKR . U NPULS - 1 NbP5k = 15 FALSE . PPULS .LE. U IDUMEL . 0 IACTEL = 1 TRUE SNBPSR .GE. 9 140.01 NKUHS = 1 \* HAGNS -Lf. 32 CONTINUE . 47.09--->| | MOTE 03 | 0 0 0 0 0 0 PERIOD - 1.0/FO NTTL & 200N2POM WRITE TO DEV Tet = DX/0.2947928 TLSB -PHLSB - PHLSB - PERTUD / ANTPAT / I N2POM = 8 FALSE . NZPOW .LT. 8 N2 = N2PCH IFLG = 1 CART IIILE - SUBRUMINE ANTARTIK, F. e. THIS SUBMOUTING CONTROL OF THE ANALYSIS OF THE Well- It bey 0 = 1747 / ANTARY / 42.14--->4



the second second

CHARL TELL - CONDUCTOR MINKERS

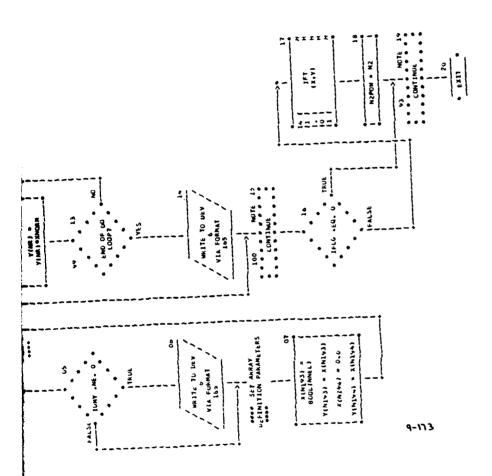




CMAKT TITLE - SUBRGUTINE ANTARY(X,Y,+)

|        |    |                                  |                |                 |       |         |   |        |         |       |                 |        |     |            |      |         |                |              |    |     |             |         |                |   |      |         |           |     |      |       |      |                    |                    |                |   |                          |          | -   | !=         |
|--------|----|----------------------------------|----------------|-----------------|-------|---------|---|--------|---------|-------|-----------------|--------|-----|------------|------|---------|----------------|--------------|----|-----|-------------|---------|----------------|---|------|---------|-----------|-----|------|-------|------|--------------------|--------------------|----------------|---|--------------------------|----------|-----|------------|
| •      | 80 | J XINISS = j<br>I ALMBDA/FLGAT ; | (IACTEL)       | VINISS = XINISS |       | * * * ; | • |        | * * *   | PALSE |                 |        | 7   | XNORM #    |      |         | + 99 NA TANEL. |              | -> | - ) | KONED = 1   | YINK) = | - VINRI PKNORM |   | 1 00 | •••     | FND OF DO | 206 | •    | - AES | <br> |                    | 1 / WAITE TO DEV / | / VIA FORMAT / | - | 9                        | CONTINUE | -   | •          |
| 141.35 |    | / #KITE TO DEV / 1               | / NIA PURMAT / | FROM THE LIST   | <br>( | 151 = 1 |   | 141.35 | 40 • 03 | •••   | * ENC OF UN \$- | 4 6007 | - [ | 1455 - 191 | <br> | *0 * 5* |                | END OF BU 4- | Ì. |     | VES - 191 - |         |                | 3 | •    | FALSE . | •••       | • • | TRUE |       |      | / #k17¢ 10 0cv / + | V1A FU<br>162      |                |   | UEFFINITION PARAMETERS ! | ~-       | 100 | DODE CONT. |

AUTOFLOW CMART SET - FWO/SCL RADSIM



## LHART TITLE - NUN-PRUCEDURAL STATEMENTS

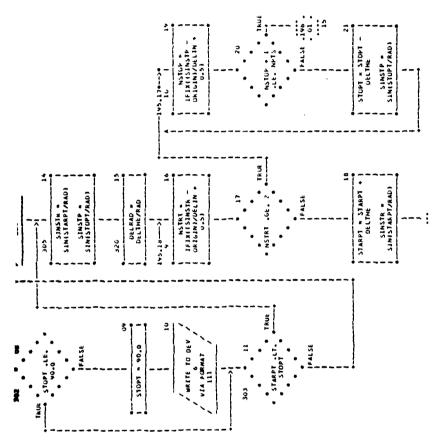
DIMENSION X(11,Y(1),PHROW(32) EWULVALENCE IBELL 3), FO J. CERTI 21). IDMY (BK11 76), NTSAK ), (BA11 77), DA IRKIE 761. THETAS 1. (BKIL 79). NEUNS (BK11 BO), NEPSCG J. (BKIE 61), IMPSCG ١. (8K1( 82), N6PSR 1. (6K14 851. 1KPSR ١, (BK14 84), INURM F. IBAIT 651. NEULS [BK11 11. N2PCW UATA NWKD.NWRDM1/31.30/.PI2/6.2631853/ UATA N143,N144,N145,N146/-3,-2,-1,0/ FURMAT 1º NUMBER OF ROW CONTROL PHASE SHIFTERS EXCEEDS MAXIMUM. P 105 KOBLEM TERMINATED. 1) 110 FURMATEINI//50X, \*\* \* \* \* ANTENNA ARRAY GENERATOR \* \* \* \*\* ///) FURMATE \* . I. . \* X(J)=".E12.6. Y(J)=".E12.6. ELPHAS=".F10.6) 115 126 FURMATI/\* \*,T4,\*FREGUENCY-GHZ = \*,E12.0,T30,\*PUINT ANGLE DEG = \* +6.3, T68, 'NR PSHIFT ROWS = 1,12, T100, 'NK TIMSCAN SECS = 1,14 / \* '.T+.\*START PULSE NR = \*,14,T30,\*ACT LLEM SPC-MTR= \*,612.6,T68 +"NR BITS PSHIFTER= "+12+T106+"NK BITS CUNGEN = "+12 / " "+T4+ 'NK ACTIVE ELEM = ',14.T36, 'ACT EL SPC-HVLTH= \*,E12.6.T68, \*PSHIFTER MASK = \*,012,T100,\*CONTR GEN MASK = \*,012 / \* \*,T4, \*TUTAL NR ELEM = \*.14.To8. \*PS RNDOFF CONTR = ".II.TIOG. CGEN KNOUFF CONT= ".II / T4. \*NURMALTZE CONTR = \*.T11 125 FURNATE \* .T4. \*DELTA ROMEINTEG)= \*.110.130.\*INIT ROPH(INTEG)= \*. 110.T68.\*DELTA CG (INTEG)= \*.110.T100.\*INTT (GPH(INTEG)= \*.110/ \* \*. + . DELTA RUN (OCT) = \*. U12. T30. \*INIT RUPH (UCT) = \*. 012. T66, \*UELTA CG (GCT) = \*,012,710G,\*INIT CGPH (UCT) = \*,012 / 1 FURMATE \*1\*,52x, \*ROW PHASE-SHIFTER SETTINGS\*//T44, \*ROW\*, 18X, 130 \*PHASE SETTINGS\*,//(T45.12.T56,1PE15.71) 145 FURMAT(1H .T43.14.756.1PE15.7) FORMAT(ING.50X.\*CUNTROL GENERATOR PHASE OUTPUT\*//T42.\*SECTION\*.10X 131 .ox. 'SECTION'.16X, 'PHASE SETTINGS'//) 135 FURMAT (1H1//44x.\*\* \* \* \* PHASED ARRAY PATTERN GENERATOR \* \* \* \*\* 1111 FURMATE INCOMPLETE PLOTTING DATA IS AVAILABLE DUE TO ARRAY SIZE E IMITS "/" ANY PLOT PROVIDED WILL NOT INCLUDE ALL VISIBLE SPACE.") FURMATELM .14.\* DUMMY ELEMENTS HAVE BEEN INSERTED BETHEEN ACTIVE E 156 LEMENT PAIRS IN ORDER TO INCREASE AVAILABLE "/" PLOTTING DATA.") FURMAT ("DELEMENT SPACING (DX) AND/UR CENTER FREQUENCY (FO) HAS NO 155 T BEEN PROPERLY SPECIFIED. PROBLEM TERMINATED. ") FURMATI' NUMBER OF ANTENNA ELEMENTS EXCEEDS ARRAY LIMITS (1024)\* 160 NEL SET TO 1024.\*) 105 FURMAT EFOTHE OUTPUT ARRAY HAS BEEN NURMALIZED TO THE NUMBER OF AC TIVE ARRAY ELEMENTS.\*1 FURMAT (1H1.42X. OUTPUT ELEMENTS (PHIUR TO ANY NURMALIZATION) FORMATE' NUMBER OF BITS IN ROW CONTROL PHASE SHIFTER IS EXCESSIVE. 100 NEPSK HAS BEEN SET TO 15.11 FORMAT (1H1) 165 FURMAT ET NUMBER OF BITS IN CONTROL GENERATUR IS EXCESSIVET NOPSC 190 G HAS BEEN SET TO 15.11

CUMMUN/8LK1/BK1(400).TSKLOS(100)

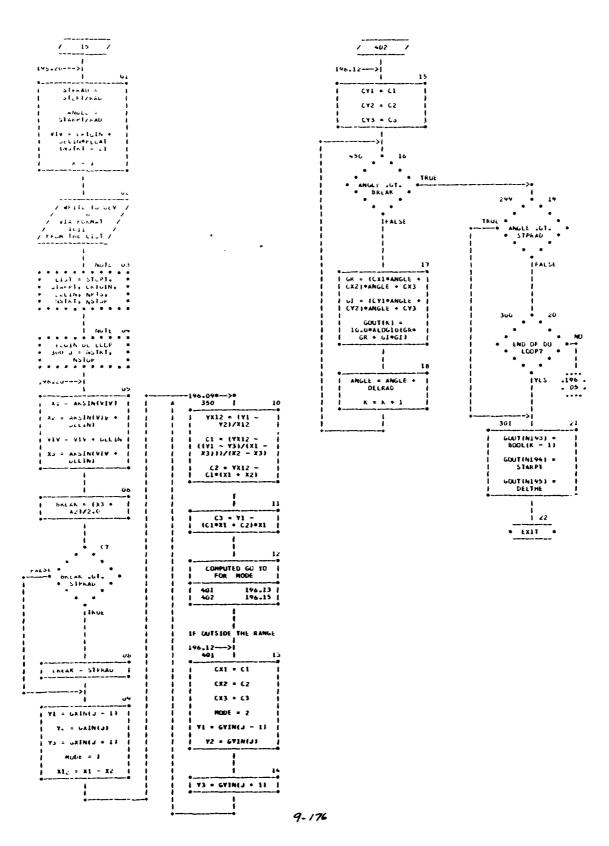
9-174

CHART HILL - SUBROUTINE PLIFMT(GAIN.GVIN.GOUT.0)

|  |  | 1  |
|--|--|--|
|  | STOPT = -90.0     STOPT = -90.0     STOPT = VO.0     ST   | 114,746 # (14,74 |
| 1800L(GENNIN)   00   00   00   00   00   00   00   | 1 STARPT = - 90.0  | 1  |
| The submitted of the su | Variable To the Variable Varia |  |



9-175



0.711.73

CHART TITLE - NUN-FRUCEDURAL STATEMENTS

|     | CCMMCN/8LK1/8K1(500)  |
|-----|---|
|     | DIMENSION GXIN(1), GYIN(1), GOUT(1)                                 |
|     | EGUIVALENCE (BK1(21), IOMY ), (BK1(33), DELTHE ),                   |
|     | (BKI( 34), STARPI ), (BKI( 35), STOPI )                             |
|     | DATA N193.N194.N195.RAD/-321.57.29578/                              |
| 114 | FURMAT( "OAN ANGLE INCREMENT WAS NUT PRUFERLY SPECIFIED FOR THE OUT |
|     | PUT ARRAY. EXECUTION WILL NOT BE ATTEMPTED.")                       |
| 300 | FURMATI "OSTART POINT WAS DEFINED BELCW HORIZON. START POINT HAS B  |
|     | EEN REDEFINED TO -90 DEG.")   |
| 111 | FORMAT(*OSTOP POINT WAS DEFINED BELUW HOKIZUN. STOP POINT HAS BEE   |
|     | N REDEFINED TO 90 DEG.")  |
| 109 | FURMAT( OSTARTING POINT SPECIFIED AS GREATER THAN OR EQUAL TO END   |
|     | PLINT. ALL AVAILABLE VISIBLE SPACE WILL BE INTERPOLATED. *)         |

FORMAT(1H ,4E15.7,3110)

1011

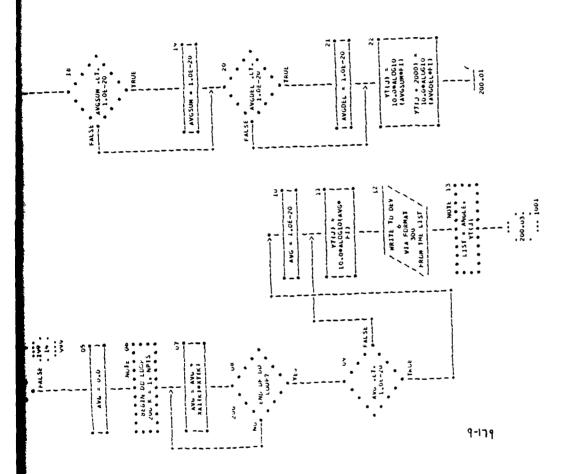
| 08/11/75                  | AUTG  |
|---------------------------|---|
| CHART TITLE - SUBRILUTINE | CHART TITLE - SUBRUMINE TSRPATIKT.VT.KAI.HAZ.HR.YR.*! |
| 9-17                      |   |
| 8                         |   |

| MATE TO DEV   | 100 1 10 10 10 10 10 10 10 10 10 10 10 1 |   |
|---|--|---|
| 47.11—> <br>47.11—> <br>6.11—> <br>6.11—> <br>6.20— <br>6.20— <br>6.20— <br>6.20— | 10   10   10   10   10   10   10   10    |   |
|   | 10                                       | T |

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| THICKNEYS TO THE THICKNEY TO THE THE THICKNEY TO THE | . <u>.</u>                                   |
| CCAVC . CLAVC  | 12   78.5700)                                |
| KTITADI  | ALTERNATE RETURN                             |
|  | 1 700 104.18                                 |
| 40   |  |
| •  |  |
| NC * 100 1   | MPTS =                                       |
|  | 1 IBUOL (XA1 (N1431)                         |
| •••  | F DECEMBER 1                                 |
| , , , , , , , , , , , , , , , , , , ,  | /F11 -                                       |
|  | - IFIXEXTENISAL                              |
| ~ <b>-</b>   |  |
|  |  |
| 00   | - 1  |
| CCAVC =  | / WRITE TO DEV /                             |
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| ,<br>,   | * 1721 * * * * * * * * * * * * * * * * * * * |
| / 702 / 1  |  |
| -  | •  |
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| LIST CAVE  |  |
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|  |  |
| :<br>:   |  |
| 149.04.  |  |

CHANT TITLE - SUBHILUTINE TSRPATENT, WAI, WAZ, XR, YR, 0)

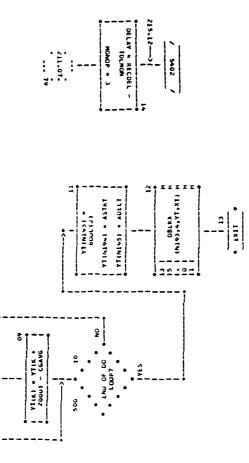
| 100.04—> <br>  AVGSUM = 0.0  <br>  AVGBL = 0.0  <br>  A | 1010 17 1000 1 | FALSE * AVESUM .17. * 1.0E-20  | FALSE NUCLEL .17. 1.06-20. 1.64-20. 1.6 |
|--|--|--|--|
|  |  |  | AVG = 1.0E-20  |
| 100 /  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | AVE = 0.0    NUIE OS    SEGIN OC LOOP   COU K = 1: NPIS   AVE = AVE   AVE = AV | NU END OF TO   |



100.13—>| 100.1 | 03 1 NOTE 02 WRITE TO DEV / VIA FORMAT / VIA FORMAT / FAUM THE LIST / XTIK) = VTIK) --1 - 0 = 0 199.22->•

:

YI(K) = YI(K + 2000) - CGAVG



| XI(K) = YI(K) - | |

FALSE MODISR .EQ. 8

1-0-0

## CHART TAFEE - NEN-PROCEDURAL STATEMENTS

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| 11          |
| <b>5L</b> K |
| ¥C Z        |
| CCE         |
|             |

|     | 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7             | ,        | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | EKT CTT TEM | 7 ¥.1              | -      | 1. ( EK) ( ) 1). F1 |      | <u> </u>              |   |
|-----|---|----------|--|-------------|--------------------|--------|---------------------|------|-----------------------|---|
|     | E COIVAL CAUCE                                      | -        | 1 4 40                                   |             | 5                  |        |                     |      | •                     |   |
|     |   | _        | EK1 (                                    | 570.        | EKI ( 57), ANGLE   | ) • (  | 0 k l (             | 3+1. | ), ( ohi( 54), ASTRI  | - |
|     |   | J        | 9K1(                                     | 351.        | BKI( 35), ASTCP    | ).(    | oK1(                | 33), | OK1(33), ADELT        | - |
|     | •   | _        | BK1(                                     | 4).         | . ( BK1( 4), SIMEW |        | cK1(11              | . (3 | 1.( cki(ilo), MCDTSR) |   |
|     | UIMENSIGN XT(1),YT(1),XA1(1),XA2(1),XK(1),YK(1)     | 11,      | (10)                                     | X41()       | 1),XA2(1),         | XF.(1) | ,Yh(1)              |      |                       |   |
|     | LATA N193,N194,N195,N196/-5,-2,-1,U/                | 4        | [4861]                                   | -/961       | 10.1-6.2-00        |        |                     |      |                       |   |
| ioi | FURMAT( * K= *, 110)                                | <b>—</b> | (3)                                      |             |                    |        |                     |      |                       |   |
| 307 | FURMAT (* CGAVG=*, E13.5, "WATT-NANUSECUNUS IN UB") | VG=      | , £13,                                   | 7M. 65.     | TT-NANUSE          | CLNUS  | 27                  | •    |                       |   |

9-181

FURMATI " THE REGUIRED NUMBER OF FREG. DOMAIN SAMPLES",

• cxceebs 4005\*)

ກ ເ

FCKMAT(" ANGLE=",F12.5,"SUM ENEKGY=",F12.5,

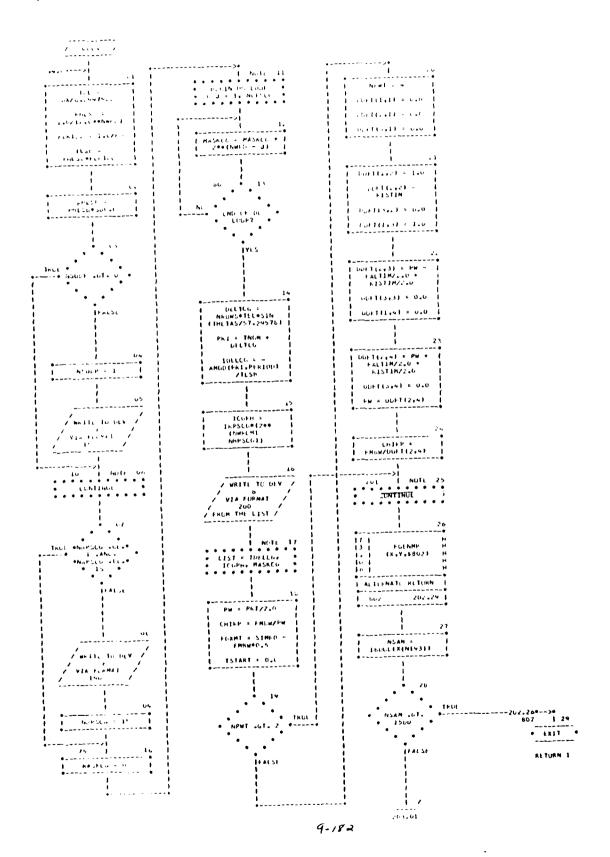
\* DEL ENERGY= ", F12.5)

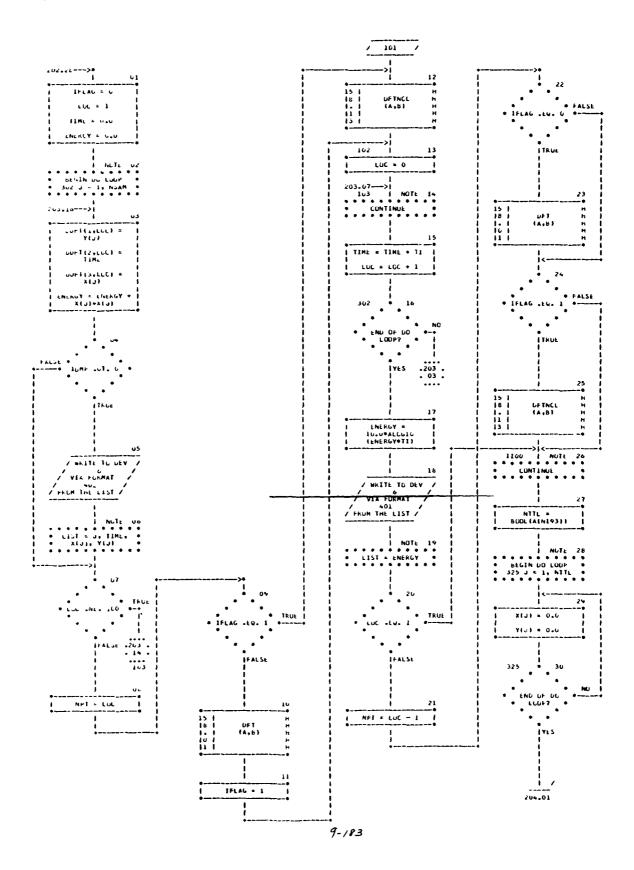
FURMATIIH , ANGLE=",E13.5," ENEKGY=",E13.5]

500

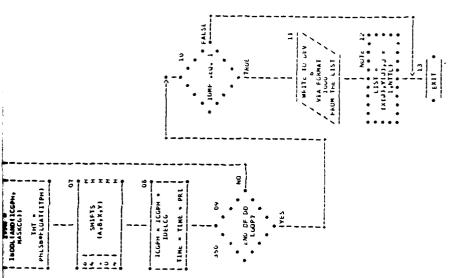
361

Confidence - Constant of the section of





|  |   | TRUE   |
|--|---|--|
| 1181 = 0.0  1181 = | 10 = 11   11   11   12   13   14   15   15   15   15   15   15   15 | 1046 = 106 + 106 + 104 + |



CUMMUNZELKIZ BK112601,5DF713,100)

,8KI( 12)), 5)),(II obil 311, (SIMFU , ERIL ENDIVALENCE (FO

, BKIL 7711, (THETAS, BKIL 7611. Š (NRUMS + 6KIL 791)+(NBPSCG, 6KIL EU))+(IKPSCG, RKIL 611)+

,6K1( £9)), (NSUEP , BK1( ES)), (TNLM

FK1( 90)), (FUXMI , BK11 91)), (CH1RP , BK1( 92)).

\*bk1( 941), (TSTAKT, BK1(1001), ¥d.)

, 6K 1 (2001) PERTURENTALINET . FK1( 5311, (RFM1 ,6K1(150)), (THI (FMEW

010

(KISTIM, EKI( 98)), (FALTIM, SKI( 99)), (IDMF, BKI( 21))

"(11MLSB.bk1(1151),(1NGRM ,bK1(91)

DIMENSION X(1)+Y(1)+A(1)+E(1)

LAIA 1,143,N144,N145,N146/-3,-2,-1,0/

DATA NWKD:NWKDM1/31,30/;U/2.14746.56EU9/

CHMATT MIMBER OF SUBFILLSES WAS LESS IT AR OF ENUAL ZEFUSSINNSURP 7

OLT EQUAL TO 1 "1

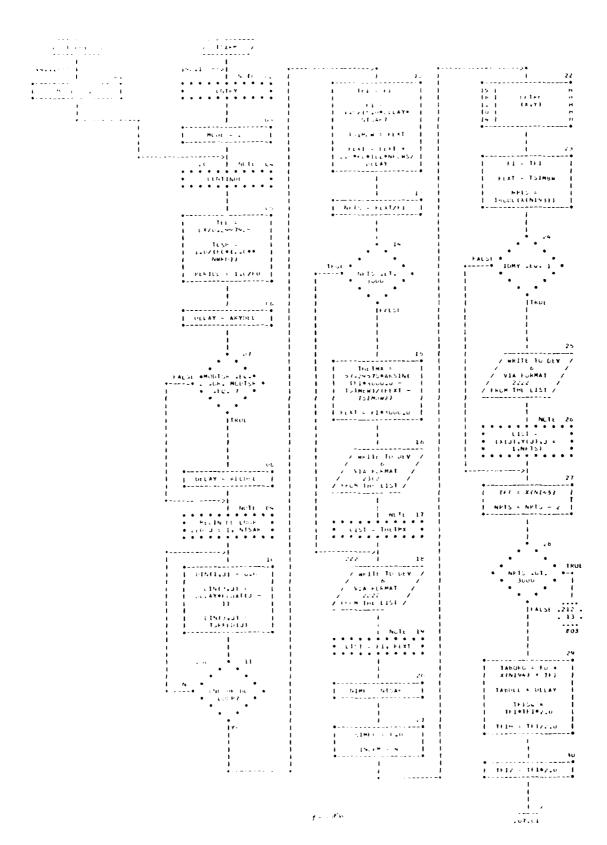
DEMNICE THE NUMBER OF BITS IN CONTROL OFF PRISE SHIFTER SET TO 15 3.40

FURMAILE IDELEGATIONS, TOURMATICIZIE MASSAGGATIONS 30, PLEMAILS DESSIGN TIMESSILLS. MAGESSCLOOPS PEACE SELLS. ....

FURMAT (\* ENERGY=\*+E13-5+\* WATT-NAMES, CETHIS\*) 101

FURMATCIN . Sc 15. 1) 1000

9-185



AUTOFLOW CHAKE SET - FWO/SCL KADSIM

CHANT UITLE - SUBROUTINE TSANY(X.Y.XR.YR.0)

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3461 = (248) = 346117172

ATTALL ATTA

\* \* \*

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Luffell to Tr Fun Hill 1 to Hill 1 to 207-15

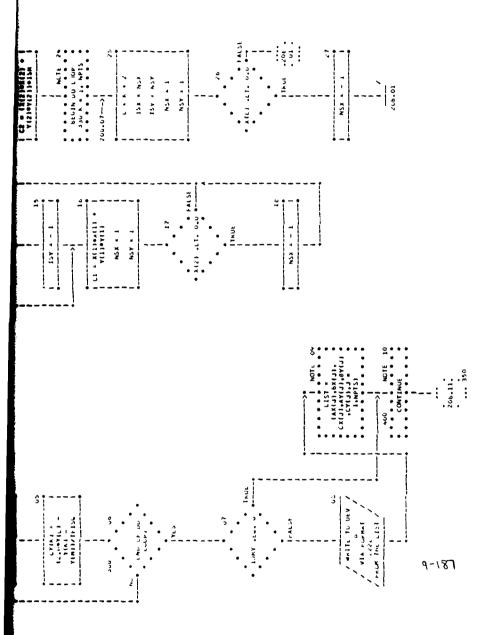
207-02

| +415t                                      | PALSE 13X NL. *  ********************************** | V(2)=V(2)=X(2)   1 |
|--|---|--------------------|
| ZGT.01———————————————————————————————————— | FALSE * 17 TRUE                                     |                    |

SYK1 = 17101 -YK1371612

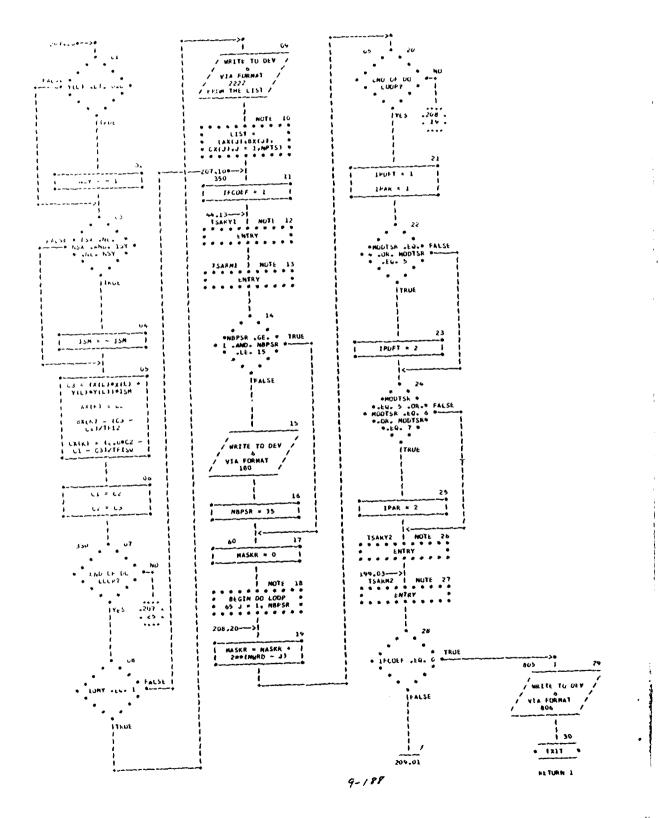
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(2,048) = (2,048) - 948) - 948) - 748) - 748) - 748) - 748) - 748) - 748) - 748)



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CHART TITLE - SUBRIGITINE TSARY(X.Y.XR,YR.\*)



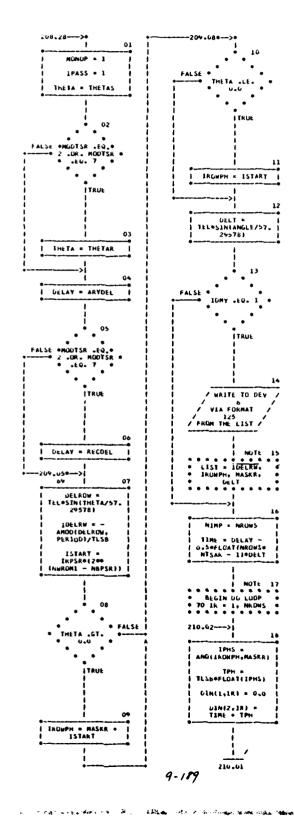


CHART TITLE - SUBMOUTINE TSARYIX, Y, XR, YR, \*)

\*<-----

3100 | 20 3100 | 20 COMPUTED GL TO FOR HONGP 3100 233.17 3120 233.17 16 OUTSIDE THE NAME
210.20-->
3110 | 21
| DELAY = RECOLL + | 211.07: MUNUP = 2 | MOTE 16 | LECTRO | LOGO | LECTRO | LOGO | LECTRO | LOGO | LECTRO NOUT = 16COL(X(N193)) \* (L)YeT(J)Y IPASS . 1 -216.09#-># |FALSE intarn = IntaPh + AUELNW UNIVERSITATION 11Mc = 11Mc + U.C. [ DED # UTHIS PALLE PASS SEC. 1 INCAM # + Cr 1kt

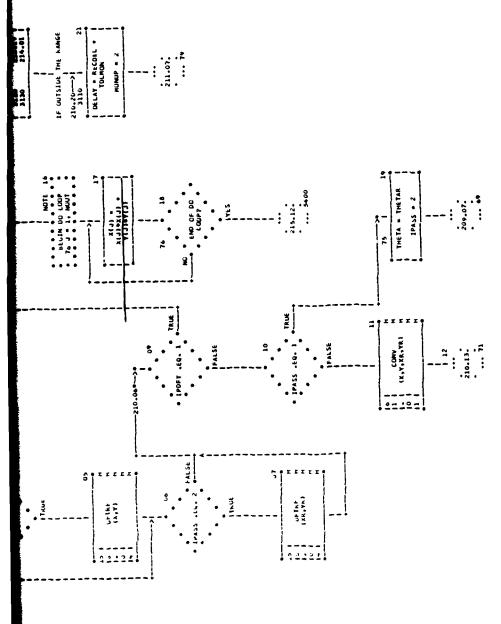


CHART TITLE - SUBROUTINE TSARY(X,Y,XR,YR,+)

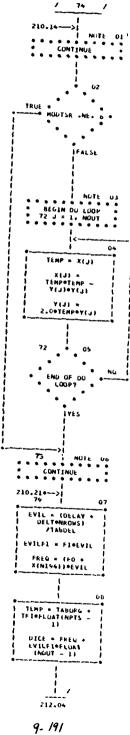
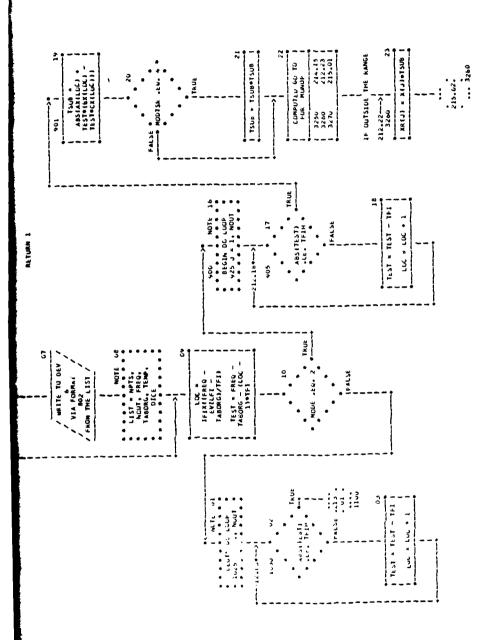


CHART TITLE - SUBRUUTINE TSARY(X,V.XX,VR,0)

TSUB = ABSIAXILUC) + 1 TEST\*(bX(LUC) - 1 TEST\*(bX(LUC)) | 1 TEST\*(bX(L 1 TSUR - TSUB-TSUB COMPUTEU GU TU FUR MUNUF FALSE . BODTSK .tu. 4 106 | MOTE 14 | NOTE 12 | NOTE 12 | LIST = NPTS | | NOUT FREQ | | TABONO TENP | | DICK | / WAITE TO DEV / VIA FURMAT / 802 / FROM THE LIST / / WAITE TO DEV / VIA FORMAT / BOZ / FROM THE LIST / \* ABS(TEST) · tall · RETURN 1 206.28-->1 V-21..160-> MOUE . EG. 2 FRE ALT. FAUE | MOTE CE | LIST & NPTS. | LIST & NP / WAITE TO DEV / VIA FORMs / 802 / FROM THE LIST / TEST = FREG = TABORG = (LOC = 1)eTFJ FALSE 10HY .EG. 1 . 01Ct .GT. .. TEMP LOC = IFIX(FREQ -EVILFI -TABGRGI/TFI) **IFALS**£ FALSE 211.06---> Acother 1 MATE OF 26.71 (-- 0 C 1 2 7 1 . - - - -



| 210.20-> <br>210.20-> <br>10 LAV = RECOLL -  <br>1 TOLHUN<br>  HOMNP = 3  <br>  11.07  |  |
|--|--|
|  | TEMP = X(J)   11   Y(J)   12   Y(J)   12   Y(J)   13   Y(J)   Y(J |
| 213.020->  On   TEMP = X(J)   On   TEMP = X(J)   On   TEMP = X(J)   On   TEMP = X(J)   On   On   On   On   On   On   On   O  | TEMP = K(J)   K( |
| 1306 / 1500 / 15 | 110.0 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  |

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CHART TITLE - MERCUTINE TMARTE, V. RR. VR. 01

| / 0626 / | (K(J) = (K(J) × (K(K) × (K(K) × (K(K) × (K) × (K(K) × (K) × (K(K) × (K) × (K) × (K(K) × (K) × (K) × (K) × (K(K) × (K) |   |  |
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| 3130 /   | MOTE 01<br>   | 3 |  |

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|         | IONY -EG. 1 | TRUE |

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L157 ...
(XK(J), YR(J), J. ...
(XK(J), YR(J), J. ...
1, NOUT) | NOTE OB | | NOTE

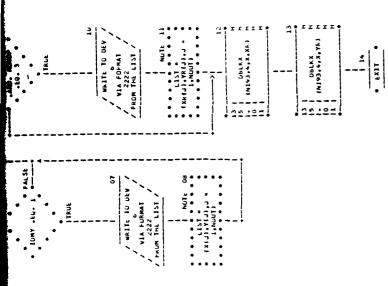
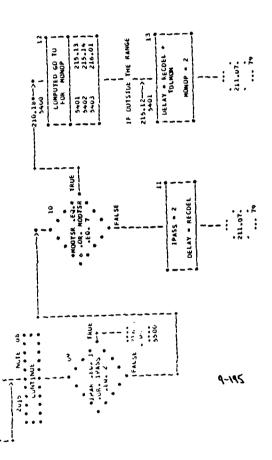


CHART IITLE - SUBRUUTINE ISARVIX,V.XR.YR.0)

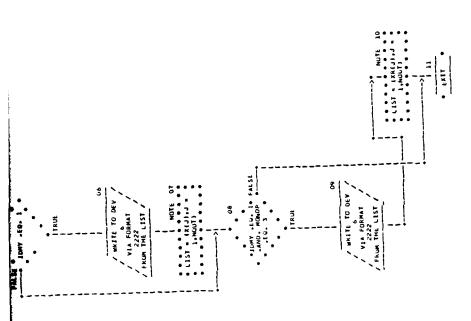
|   | 5400   32<br>  CUMPUTED GO TU  <br>  + GK MONGP | 1 5-01 215-13  <br>5-02 215-14  <br>1 5-03 216-01 |
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| 1 | •   | STAR - EC. 3 - TRUE<br>- OR. 1PASS                |



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| NOTE O7 215,64-->| Nult Of | Source | Null Of | Null XH(J) = 1 ABS(1EMP - XR(J)) TEMP = X(J) X(J) = TEMP + XK(J) LUGP?
LUGP? FALSE TOMY -EQ. 1



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UIMENSION X(II),Y(I),CX(30001,AY(3000),EY(3000),CY(3000)

UIMENSION XK(I),YK(I)

UIMENSION TSRFED(160)

BUING FACE (GINGS-C7) TSEFFULL)

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|--------------------------|---------------|---------------------|----------------------|---------------------|----------------------|---------------------|--------------------|--|
|                          |               | NISAK               | ), tekli 78), THETAS | NbPsk               | ). (EKI( &6), AKYDEL | ANGLE               | SIMFO              |  |
|                          |               | 761.                | 781,                 | 623.                | . (93                | :111                | 5                  |  |
|                          |               | ), tekit 761, NISAK | (ckl(                | 1. LEALL SELL NEPSE | (EK1(                | 1. EFRIE 271, ANGLE | D. CENTO SD. SIMFO |  |
| -                        | <i>:</i>      | <i>-</i>            | <i>:</i>             | <b>:</b>            | <i>:</i>             | <i>:</i>            | =                  |  |
| ر<br>4                   | F.I           | IUMY                | č×                   | RAURS               | 1 k F S K            | F E x T             | AI II              |  |
| (6K1( 3),                | (BK1( 11), FI | (BK16 21), IUMY     | (BK1( 77), UX        | (BKIL 7Y), AKUHS    | (BK1 ( £3), 1KFSK    | IBKII 41. FEXT      | (6K1(200), NIMP    |  |
| CHUIVALENCE (6K1( 3), FO |               |                     |                      |                     |                      |                     |                    |  |

CUDIVALENCE (EKIETTY), ALCDELINEALETTY), THETAKI,

(8KI(116), MUDISK), (SKI(185), TLEMLM)

.( INUKM , BK11 5))

UATA NIY3,NIY4,NIY5,NWFL,NWKLMR,IRCURKZ-3,-1,-1,31,30,0Z

... FLEMATI' THE MAXIMUM ALLUMAELE ANGLE FOR ENUADSIDE 15",F15,7)

TERMATCH .6620.6)

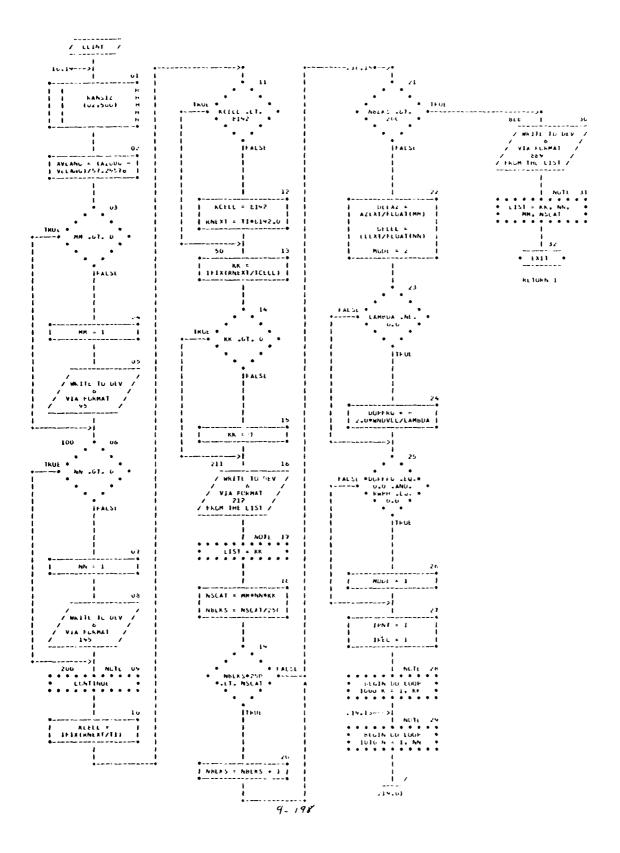
To correct NUMBLE OF ELIS He KOW COMBEL PERSO SHIFTER SET TO 15\*)

(3.513.41)14 \*

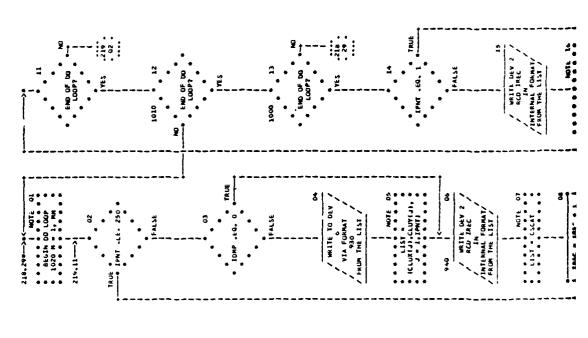
FEMALL PHENCLATTIN CLOSTINIS M.F. MITTALLIZER'S

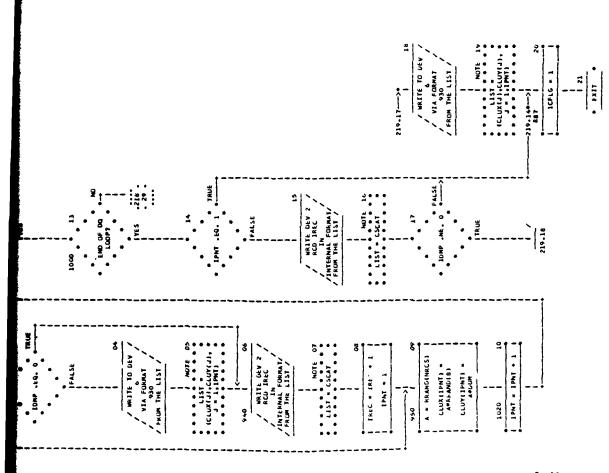
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CHAIT TITLE - SUBROUTINE CLINITES





TITLE - NUR-PROLEDDRAL STATEMENTS

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|---------|-------|
| •       |       |
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| P.A.    | 9-2-0 |

CUMMLN/BLK1/ CLUX(250),CLUY(250)

COMMUNISTREY BR2(500) COMMONISTRENT TOME(8), DUM

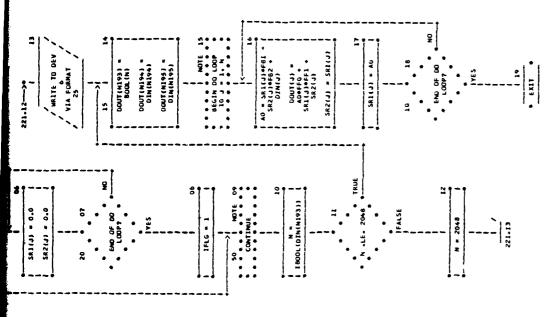
- a to make all the grant ware

|             | DIMENSION CSCAT(SOC)   |                              |
|-------------|--|------------------------------|
|             | E-UIVALENCE (CLUX(I), CSCAT(I))  |                              |
|             | EUGIVALENCE (BK2( 13), LAMBDA  | 1. (ok 2 ( 14), TCELL ),     |
|             | (BK2( 21), 10MP  | 1. (EK 2 ( 46). NRCS ).      |
|             | [EK2f 47], NEWPH   | 1. (5K2( 48), RWPH 1.        |
|             | IBK21 441, MNDVEL  | 1. (BK2( 50), VELANG 1.      |
|             | (EK2( 51), RNEXT   | 1. (6K2f 52), RNOOG 1,       |
|             | (6K2( 53), AZEXT   | 1.15K21 541. AZ000           |
|             | [BK 2 ( 35 ). MM   | ),(bK2+ 56), ELEXT ),        |
|             | (6K2( 57), £L600   | 1.(bk2( 5b), NN ),           |
|             | (6K2(120), NK  | J. (BK2(121), NBLKS ),       |
|             | (8K2(122), MUDE  | ).(BK2(1,3), DELAZ ).        |
|             | (PK2(124), DELEL   | 1.16K2(125), XVEANG 1.       |
|             | (BKZ(126), 1CFL6   | 1. (EK2 (1271, CUPPKS )      |
|             | (6K2(128), KLELL   | ),(5K2( 12), TI )            |
|             | KEAL LAMBUA  |                              |
| ÷           | FURMATCHO, THE VARIABLE MM HAS ELEN SET TO 1                           | EN SET TO A * 3              |
| 145         | FURMAILIHG." THE VARIABLE NN HAS BE                                    | BIEN SLT TC 1 * 3            |
| .1.         | FURMATCHO. THE VARIABLE KN HAS BIEN                                    | in SLT TC+,15)               |
| ر<br>د<br>د | FCAMATEIN .6t20.61   |                              |
| , 90        | FUFFAIT IN of The PRODUCT UF AKE "plage Mise", is, " MM="plage" IS TUO | *** NA=**14, MM=**14, 15 TUO |
|             | LABOL, ", 110," THIS JUB WILL TERMINALE"                               | 15.1                         |

CHART TITLE - SUBRUUTINE MITELTICIM, DOUT)

AUTOFLOW CHART SET - FWG/SCL RADSIM

| MOTE 20  MOT |  |
|--|--|
|  | 221.12—>+ 13  WRITE TO DEV  VIA FORMAT  25  15  15  15  15  15  16  17  18  18  19  19  10  10  10  10  10  10  10  10 |
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| MTIFLT(DIN,DOUT)         |       |  |
| ¥                        |       |  |
| CHART TITLE - SUBRCUTINE |       |  |
| 1                        |       |  |
| TITLE                    |       |  |
| CHART                    | d-905 |  |
|                          |       |  |

|                   | ,   | 1007(1) = 1007(1) = 1007(1) = 110 |
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| MX = 200 (NBITS - |   | IABSILO) -UT.  |
| MT11MC            | 100 0 00 1 1 20.8 1 20.8 1 | Thut embits .cr  |

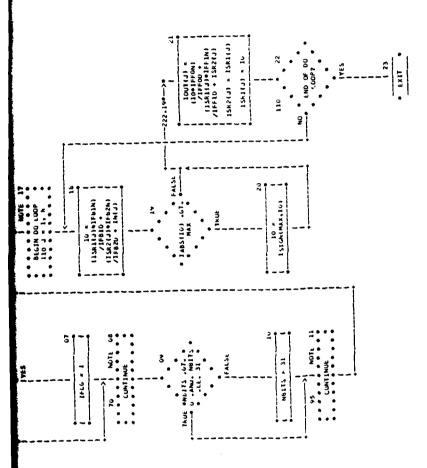


CHART TITLE - NON-PROCEDURAL STATEMENTS

CDMMON/BLK1/BK1(500)

DIMENSION DIN(1), DOUT(1), IN(1), 16UT(1), SR1(2046), SR2(2048),

15K1(2048), 15R2(2048)

EQUIVALENCE (SRI(1), ISRI(1) ) , (SR2(1), ISR2(1) )

UATA N193,N194,N195,N196/-3,-2,-1,6/

UATA IFLG/0/

| • |                   |                | :                             |
|---|-------------------|----------------|-------------------------------|
| 1. (6KI( 6E), FFO                       | 1, (8KI( 70), FBI |                | 1, ( BKI(161), 1FF0D          |
| -                                       | -                 | -              |                               |
| EGUIVALENCE (BK1( 21), IDMY             | (BK1( 69), FF1    | (BK1( 71), FB2 | EQUIVALENCE ( BK1(160), IFFON |

| -                             | -                    | <b>:</b>            | -                    |
|-------------------------------|----------------------|---------------------|----------------------|
| IFFOD                         | IFF10                | 16810               | IF820                |
| 1. ( BKI(161), 1FF00          | 1, ( BKI(1631, IFF10 | 1,( BKI(165), IFBID | ), ( BK1(167), IFB2D |
| )•(                           |                      | ),(                 |                      |
| IFFON                         | IFFIN                | IFBIN               | IFB2N                |
| BK1(160),                     | ( BK1(162), IFFIN    | ( BK1(164), IFBIN   | ( BK1(166), IFB2N    |
| J                             | J                    | _                   | -                    |
| EQUIVALENCE ( BK1(160), IFFON |                      |                     |                      |

| _               |  |
|-----------------|--|
| BK1(169), NBITS |  |
| _               |  |

FURMATI " TOO MANY POINTS IN INPUT ARRAY ... FIRST 2048 PROCESSED!

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| NOTE 12-

1 1800L(DIN(N1931)

C1 = DIN(J) .
SK1(J)\*FBCK
DOUT(J) = SA1(J)

11 TRUE | TRUE |

UNTER TELLE - SUBRUITINE SWPIMTEDIM, UTUTT

| 11 2 | DOUT(N)93) = | DOUTINISAL + 1 | DOUT(N195) = 1                        | 100 | 1 DO 4              | . N.T # 7 0 7 * | 16   | C1 = DIN(J) + f | COUNTES & SREEDS 6   | SRI(J) = C1 |       | 10 + 17 |    | * LOOP? * | IVES | <br>- <del></del> | . FXIT |
|------|--------------|----------------|---------------------------------------|-----|---------------------|-----------------|------|-----------------|----------------------|-------------|-------|---------|----|-----------|------|-------------------|--------|
| 30   | 116 - 1      | 50   Walt 09   | * * * * * * * * * * * * * * * * * * * | 21  | I FBOOL (DIN(N1931) |                 | <br> |                 | * N .Lt. 2048 ****** | •           | FALSE |         | 21 | N = 2048  |      |                   |        |

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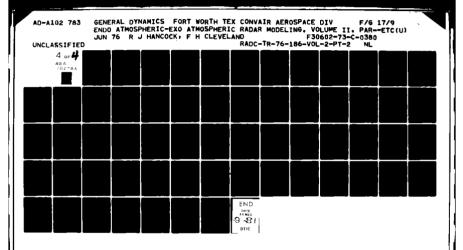


CHART TITLE - NON-PROCEDURAL STATEMENTS

COMMON/BLK1/BK1(500)

DIMENSION DIN(1), DOUT(1), SR1(2648)

EQUIVALENCE (BK1( 21), IDMY ), (BK1( 75), FBCK

DATA N193,N194,N195,N196/-3,-2,-1,0/

DATA IFLG/0/

35

FURMATI . TOO MANY POINTS IN INPUT ARRAY....FIRST 2048 PROCESSED.)

08/11/75 TABLE OF CONTENTS AND REFERENCES ÇAŅU 10 PAGE/BGN NAME

AUTOFLOW CHART SET - FWD/SCL REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX)

FURTHAM MUDULE RADSIM

CHAKT 11TLE - INTRUMOTORY COMMENTS

CHAKT 111CE - PROCEDURES

10003081 2.06

2 42.

10003071 ( non sor ) (nrenn)

| 1.10   830   1.10   1 |                  | ~ |            | ;     |           |       |          |       |          |       |
|--|------------------|---|------------|-------|-----------|-------|----------|-------|----------|-------|
| 1.10   2   24,43   21,12   21,12   21,12   21,13   21,12   21,13   21,12   21,13   21,13   21,14   21,12   21,14   21,15   21,14   21,15   21,14   21,15   21,14   21,15   21,14   2 | tomatel total    |   | 10003111   | 5.09  |           |       |          |       |          |       |
| 1.11   0   230   24,43   2.12   2.11   0.00314   2.12   2.11   0.11   0.00314   2.12   2.11   0.11 | 40.00 (file 000) |   |            |       |           |       |          |       |          |       |
| 1.11   0,000314   2,12     2,11   101,   | 01.1             | ^ | 930        | 24.43 |           |       |          |       |          |       |
| 1.11   0   | tectors 2011     |   | (+16000)   | 2-12  |           |       |          |       |          |       |
| 1.10    | 11 (+1000)       |   |            |       |           |       |          |       |          |       |
| 2-17         161-           2-17         161-           2-17         160-           2-10         160-04-49         10-23         1000-0271         12-11           2-10         1600-12         2-21         1000-0271         2-21           2-10         1600-12         3-14         7-06           2-11         1600         1600-12         3-14         7-06           2-12         1600         1600-12         3-14         7-06           2-13         1600         1600-12         3-14         7-06           2-14         1600         1600-12         3-14         7-06           2-15         1600         1600-12         3-14         7-06           2-17         162         1600-12         3-14         7-06           2-17         162         1600-12         3-14         7-06           2-17         162         1600-12         3-10         7-06           2-17         162         1600-12         3-10         7-06           2-17         162         1600-12         3-10         7-06           2-17         162         1600-12         3-10         7-06   | lucusted tota    |   | 1000316)   | 2.13  |           |       |          |       |          |       |
| 1.17   1.000   1.000   1.18   1.23   1.000   1.000   1.25   1.2 | freezista Zali   |   |            |       |           |       |          |       |          |       |
| 2.2.1         (1000 424)         10.23         (1000 427)         2.21         (1000 407)         24.30           3.2.1         (1001 444)         3.10         7.00         7.00         7.00           3.2.1         (1001 444)         3.10         7.00         7.00           3.2.1         (1001 442)         3.14         7.00         7.00           3.1.2         (1000 442)         3.16         7.00         7.00           3.1.2         (1000 442)         3.16         7.00         7.00           3.1.2         (1000 442)         3.10         7.00         7.00           3.1.2         (1000 442)         3.00         7.00         7.00           4.00         (1000 442)         3.00         7.00         7.00           5.1.1         (1000 440)         3.00         7.00         7.00           5.1.1         (1000 440)         3.00         7.00         7.00           5.1.2         (1000 440)         3.00         7.00         7.00           5.1.2         (1000 440)         3.00         7.00         7.00           5.1.3         (1000 440)         3.00         7.00         7.00           5.1.3         (1000 440)   | 11.2 14.5        |   | (610000)   | 2.18  |           |       |          |       |          |       |
| 3.1.         1010         (0003701)         2.21         (0003701)           3.1.         1010         (000444)         3.10         (0003701)           3.1.         1000         (000442)         3.14         (0003701)           3.1.         1000         (000442)         3.14         (000442)         3.14           3.1.         1005         (000442)         3.16         (000442)         3.16           3.1.         1005         (000442)         3.16         (000442)         3.16           3.1.         1005         (000442)         3.16         (000442)         3.16           4.0.         1000         (000452)         3.06         (000452)         3.06           4.0.         1000         (000452)         3.06         (000452)         3.06           5.0.1         1000         (000452)         3.06         3.06         3.06           5.0.1         1000         (000452)         3.06         3.06         3.06           5.0.1         1000         (000452)         3.06         3.06         3.06           5.0.1         1000         (000452)         3.06         3.06         3.06           5.0.1         1000 <td>V&gt; (022700)</td> <td></td> <th>15750001</th> <td>10.23</td> <td>100004573</td> <td>10.11</td> <td>10000001</td> <td>24.30</td> <td>10010431</td> <td>25.10</td>   | V> (022700)      |   | 15750001   | 10.23 | 100004573 | 10.11 | 10000001 | 24.30 | 10010431 | 25.10 |
| 3-10         (0004+4)         3-10           3-10         (0004-2)         3-14           3-11         (1000         (1000-2)         3-14           3-11         (1000         (1000-2)         3-14           3-12         (1000         (1000-2)         3-10           3-12         (1000         (1000-2)         3-10           3-12         (1000         (1000-2)         3-10           3-13         (1000         (1000-2)         3-10           3-14         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-10           3-11         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-10           3-15         (1000         (1000-2)         3-11           3-15         (1000         (1000-2)  | ( 1.cetu)        |   | (1000327)  | 2,21  | (00037e)  | 7.00  |          |       |          |       |
| 3-16         (1000942)         3-14           3-17         1000         (1000342)         3-16           3-12         1005         (1000438)         3-16           3-18         (1000449)         3-16         (1000438)           3-16         (1000449)         3-16         (1000438)           3-17         1-25         (1000352)         4-06           4-11         1-25         (1000353)         4-05           5-11         1-25         (1000354)         3-06           5-11         1-25         (1000356)         3-06           5-12         1-25         (1000356)         3-06           5-13         1-25         (1000356)         3-06           5-13         1-25         (1000356)         3-06           5-14         1-25         (1000356)         3-06           5-15         1-25         (1000356)         3-06           5-17         1-25         (1000366)         3-06           6-17         1-27         (1000366)         3-06           6-17         1-27         (1000366)         3-06           7-11         1-27         (1000366)         3-06           7-12         <  | took (cannot     |   | 10003443   | 3.10  |           |       |          |       |          |       |
| 5.11         1000         (1000442)         3.08           5.12         1005         (1000442)         3.08           5.12         (1000443)         3.08         (1000438)           5.20         (1000443)         3.04         (1000438)           4.05         (1000352)         4.06         4.06           4.05         (100035)         4.06         4.06           5.01         (100035)         5.06         5.06           5.11         1625         (100035)         5.06           5.11         1620         (100035)         5.06           5.11         1620         (100035)         5.06           5.11         1620         (100035)         5.06           5.11         1620         (100035)         5.06           5.11         1620         (100036)         5.06           6.12         1620         (100036)         5.06           6.11         1670         (100036)         7.01           7.11         172         (100036)         7.07           7.11         172         (100036)         7.09           7.11         172         (100036)         7.09           7.11   | TOUGHT 3+00      |   | (246000)   | 3.14  |           |       |          |       |          |       |
| 3-15         1005         (1001343)         3.09           3-16         (10004343)         3.04         (1000438)           3-17         (1000434)         3.04         (1000438)           4-17         1625         (1000352)         4.06           4-11         1625         (1000334)         4.05           5-11         1625         (1000334)         5.06           5-12         1620         (1000334)         5.06           5-13         1625         (1000334)         5.05           5-14         1620         (1000354)         5.06           5-15         1620         (1000354)         5.06           5-17         1620         (1000354)         5.06           6-13         1620         (1000364)         6.06           6-14         1675         (1000364)         6.06           7-15         1670         (1000364)         7.07           7-15         1675         (1000364)         7.07           7-15         1675         (1000364)         7.07           7-15         1675         (1000364)         7.06           7-15         1670         7.07           7-15         1  | tecomes sale     |   | (000342)   | 3.08  |           |       |          |       |          |       |
| 3.10         (000499)         3.16           3.20         1550         (000984)         3.04         (000938)           4.07         1620         (000435)         4.06         4.06           4.07         1620         (000334)         4.06         4.06           5.01         1620         (000334)         5.06         5.06           5.02         1620         (000334)         5.06         5.06           5.11         1620         (000334)         5.05         5.06           5.12         1620         (000335)         5.06         5.06           5.13         1620         (000335)         5.06         5.06           5.14         1620         (000335)         5.06         5.06           5.11         1620         (000336)         5.06         5.06           6.12         1620         (000336)         5.06         5.06           7.11         1670         (000336)         5.06         5.06           7.12         1670         (000336)         5.06         5.06           7.11         1670         (000336)         7.07         5.01           7.12         1670         (000336) <t< td=""><td>\$1.6 Leevinus</td><td></td><th>(1000343)</th><td>3.09</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   | \$1.6 Leevinus   |   | (1000343)  | 3.09  |           |       |          |       |          |       |
| 3.40         1550         (000944)         3.04         (000938)           4.07         1625         (000352)         4.04           4.04         (000354)         4.05           5.01         (000354)         4.06           5.02         (000354)         5.06           5.03         (000354)         5.06           5.04         (000354)         5.06           5.03         (000354)         5.05           5.11         1650         (000354)         5.05           5.12         (000355)         5.06           6.13         1650         (000355)         5.06           6.13         1650         (000356)         5.06           6.13         1650         (000356)         5.06           6.13         1650         (000356)         5.06           6.14         1670         (000356)         5.06           7.11         1670         (000357)         7.11           7.12         1670         (000357)         7.07           7.12         1670         (000356)         7.07           7.12         172         7.07           7.12         1670         7.07      <  | 61.c (164000)    |   | (000430)   | 3.16  |           |       |          |       |          |       |
| 4.17         1013         10003321           4.11         1020         10003331           7.11         1020         10003301           7.12         1020         10003301           7.13         1020         10003301           7.13         1040         (000351           7.13         1040         (000351           8.13         1040         (000361)           8.11         1040         (000361)           8.11         1070         (000331)           8.12         1070         (000331)           8.13         1070         (000331)           8.11         1070         (000331)           8.12         1070         (000331)           8.13         1000         (000331)           8.11         1070         (000331)           8.11         1070         (000332)           8.11         1070         (000332)           8.11         1070         (000332)           8.11         1070         (000332)           8.11         1070         (000332)   | 10007261 3.20    |   | (******    | 3.04  | (964000)  | 3.19  |          |       |          |       |
| ****         1 LeV         (000353)           ****         1 LeV         (000354)           ****         1 LeV         (000354)           ****         1 LeV         (000354)           ****         1 LeV         (000351)           ****         1 LeV         (000351)           ****         1 LeV         (000351)           ****         1 LeV         (000351)           ****         1 LeV         (000361)           ****         1 LeV         (000361)           ****         1 LeV         (000361)           ****         1 LeV         (000371)           ****         1 LeV         (000371)           ****         1 LeV         (000371)           ****         1 LeV         (000371)           ****         1 LeV         (000372)  | 754 4.07         |   | (545,000)  | ş     |           |       |          |       |          |       |
| 10003941  | tu.> (+c+um)     |   | (1000353)  | 4.05  |           |       |          |       |          |       |
| 10003991   10003991   10003991   10003901  | teouvers **11    |   | (000354)   | 4.00  |           |       |          |       |          |       |
| 10003001  | tors (Elector    |   | 194500001  | 5.00  |           |       |          |       |          |       |
| 1000351  | ture tustinal    |   | (000000)   | 9.10  |           |       |          |       |          |       |
| 10.003561   10.00   10.003561   10.00356 | ttue teeboot     |   | (1000355)  | 5.05  |           |       |          |       |          |       |
| 1000351  | [U Yud] 5.13     |   | (000330)   | 8.8   |           |       |          |       |          |       |
| 1000358  | (1.4 L174000)    |   | (10000357) | \$.07 |           |       |          |       |          |       |
| 6.13 1660 (000365) 6.14 1660 (000361) 6.15 1665 (000362) 6.17 1675 (000363) 6.17 1675 (000371) 7.10 1675 (000372) 7.11 1695 (000363) 7.12 1695 (000368) 7.14 1790 (000368) 7.15 1695 (000368)  | 11.4 (*/*/*)     |   | 10003581   | \$0.6 |           |       |          |       |          |       |
| 6-13 1000 (000301) 6-13 1000 (000301) 6-13 1000 (0003031) 6-17 1070 (000311) 7-10 1700 (000312) 7-10 1000 (000312) 7-10 1000 (000312) 7-10 1000 (000300) 7-10 1000 (000300)  | [0.4 (244 0.0]   |   | (000305)   | 8.    |           |       |          |       |          |       |
| 6-12 1600 (000361) 6-13 1600 (000363) 6-17 1670 (000363) 6-17 1670 (000371) 7-19 1000 (000372) 7-19 1000 (000372) 7-19 1000 (000364) 7-19 1000 (000364) 7-19 1000 (000364) 7-19 1000 (000364)  | tura territori   |   | (10030)    | 6.10  |           |       |          |       |          |       |
| 6-15 1000 (000303) 6-17 1070 (000303) 6-17 1075 (000371) 7-19 1000 (000372) 7-15 1000 (000372) 7-15 1000 (000372) 7-17 1000 (000308) 7-18 1000 (000308)  | ttervesit cott   |   | (000391)   | \$0.0 |           |       |          |       |          |       |
| 6.17 1e76 (0003631) 7.01 17-0 (000371) 7.02 1/e2 (000371) 7.12 1e95 (000362) 7.13 1e95 (000368) 7.14 17-9 (000368)   | the took in      |   | (000362)   | 90.0  |           |       |          |       |          |       |
| 7.11 1075 (000371) 7.12 10.0 (000371) 7.13 10.0 (000372) 7.15 10.0 (000362) 7.17 10.0 (000362) 7.17 10.0 (000362)  | (1.004001)       |   | (000363)   | 4.07  |           |       |          |       |          |       |
| 7.11 17-0 (000372) 7.12 10-9 (000382) 7.13 10-9 (000388) 7.11 17-9 (000388) 7.14 17-9 (000388)   | (uuuwe) 6.17     |   | (1000364)  | 90.9  |           |       |          |       |          |       |
| 7.15 1005 (10003077) 7.15 1005 (10003081) 7.17 1750 (10003081) 7.18 1750 (10003081)  | 10-1 15101-01    |   | (146090)   | 7.11  |           |       |          |       |          |       |
| 7.15 1.05 (1003851) 7.17 1.70 (1003851) 7.18 1.75 (100387)   | tuition (.t.     |   | (000372)   | 1.12  |           |       |          |       |          |       |
| 7.17 1750 (000366)<br>7.17 1750 (000369)<br>7.18 1739 (000370)   | 61+L 11901011    |   | 1000347)   | 1.07  |           |       |          |       |          |       |
| 7.17 1730 (CGG364)<br>7.14 1735 (CGG370)   | 1.13             |   | (000300)   | 1.08  |           |       |          |       |          |       |
| 7.1v 1735 (000370)   | 11.7 17.01.11    |   | 10003643   | 7.09  |           |       |          |       |          |       |
|  |                  |   | 10003701   | 7.10  |           |       |          |       |          |       |

|          |           |          |           |           |          |          |          |            |          |           |          |          | 7.24       |           |              |           |           |           | 25.14    |          |            |          |          |
|----------|-----------|----------|-----------|-----------|----------|----------|----------|------------|----------|-----------|----------|----------|------------|-----------|--------------|-----------|-----------|-----------|----------|----------|------------|----------|----------|
|          |           |          |           |           |          |          |          |            |          |           |          |          | (000380)   |           |              |           |           |           | 1001001  |          |            |          |          |
| 8:       | 01.0      | \$0.4    | 8:        | ••01      | \$0.4    | 7.11     | 7.12     | 1.07       | 1.06     | 7.09      | 7.10     | 3.07     | 7.23       |           | 6.03         | 7.24      |           |           | 9.05     | 8.11     | 8.12       | 8.13     | 8.14     |
| 10003651 | (400,000) | (190000) | 1000362)  | 10003631  | 10003643 | 10003711 | (000372) | (10000301) | 10003001 | (496000)  | 10750000 | 150      | (44,000)   |           | 10003831     | (0000381) | (94F000)  |           | (000385) | 10003941 | (666900)   | 10003961 | 11003971 |
| 1060     | 1007      | 1000     | \$ 60     | 1070      | 1675     | 7.7      | 1745     | 049*       | 1695     | 1730      | 1755     | 11       | 75         | 33        |              | *         |           | 95        | 35       | 1.00     | 952        | 300      | 400      |
| 10.0     | 4 60.0    | 7 7777   | 6-15      | 15        | 6.17 1   | 1.0.7    | 3.5      | 7.15       | 7.15     | 7.17      | 7.1.     | 1.21 3   | £ 10.1     | 6.62 3    | 27.9         | ¥.0.4     | ₽•(·}     | 4.04      | 6 40.8   | 6.10     | 6.16 2     | 8.20     | 6.22 4   |
| 100 445) | 100000    | feeevast | 1006 7001 | 110004041 | 124000)  | 10010133 | twinter  | 11010111   | toul unt | (1001007) | 1010101  | (constal | [ tow(322) | (c.cc.ou) | ( www.3a.s.) | (000,304) | (100,387) | (0.45000) | (Incom)  | 10004011 | [ [000404] | 10000001 | (000410) |

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toucetes salt loss

| 04/11/75   | -          | TABLE OF CONTE | CONTENTS AND RE                                | A EFE RENCES            | à                                | AUTOFLOW CHART SET   | MT SET - FI                                      | - FWD/SCL                               |  |                      |   |
|------------|------------|----------------|--|-------------------------|----------------------------------|--|--|---|--|----------------------|---|
| CARD IU    | PAGE / 80X | X NAME         |  |                         | REFERÊNCES                       |  | (SOUNCE SEQUENCE NO. AND PAGE/BOX)               | E NO. AND                               | PAGE/BOX1                                    |                      |   |
| (000410)   | 9.02       | 36             | 10003481                                       | 1.15                    |                                  |  |  |   |  |                      |   |
| (000*50)   | •          | 101            | 330  | 11.0                    |                                  |  |  |   |  |                      |   |
| (000423)   | 4.07       | 1011           | (000451)                                       | 6.05                    |                                  |  |  |   |  |                      |   |
| (62400)    | *0**       | 1102           | (000434)                                       | 9.1¢                    |                                  |  |  |   |  |                      |   |
| [100430]   |            | 701            | (000424)                                       | 6.11                    |                                  |  |  |   |  |                      |   |
| (1000437)  | 7.17       | 5              | 987  | 17                      |                                  |  |  |   |  |                      |   |
| (moseus)   | ***        | 105            | 930  | 6.17                    |                                  |  |  |   |  |                      |   |
| 11000031   | 10.01      | 100            | 330  | 6.17                    |                                  |  |  |   |  |                      |   |
| (contro)   | 10.03      | 901            | 330  | 11.8                    |                                  |  |  |   |  |                      |   |
| (0.1450)   | 16.05      | 113            | 330  | 8.17                    |                                  |  |  |   |  |                      |   |
| 10004543   | 10.01      | 107            | 333  | 8.19                    |                                  |  |  |   |  |                      |   |
| 1600001    | 30.04      | 707            | 333  | 8.19                    |                                  |  |  |   |  |                      |   |
| [004000]   | 14.11      | 203            | 333  | 8.19                    |                                  |  |  |   |  |                      |   |
| (100,100)  | 10.13      | 877            | 333  | 8.19                    |                                  |  |  |   |  |                      |   |
| (100.00)   | 10.15      | 504            | 134  | 8.19                    |                                  |  |  |   |  |                      |   |
| (100,000)  | 10.17      | 1200           | 10004001                                       | 10.14                   |                                  |  |  |   |  |                      |   |
| (1000      | 14.20      | 1000           |  | 41.6                    | (000439)                         | 9.18   | (000*42)   | 4.20                                    | 10004451                                     |                      | (9448)                                      |
|            |            |                |  | 10.06                   | (000+26)                         | 10-06  | (000483)   | 10.10                                   | 1000462)                                     |                      | (064,000)                                   |
|            |            |                |  | 11-12                   | (000447)                         | 11-14  | (000506)   | 12.05                                   | (000511)                                     |                      | (0005131                                    |
|            |            |                |  | 13.10                   | (000250)                         | 13-12  | (000538)   | 13.04                                   | (000541)                                     |                      | (000544)<br>(000559)                        |
|            |            |                |  | 16.20                   | (000633)                         | 22.5   | (000621)<br>(000636)                             | 17.06                                   | 10006241                                     |                      | 1000627)                                    |
|            |            |                |  | 17.12                   | (000000)                         | 11.1<br>11.%   | (000053)   | 17.16<br>18.02                          | (000656)                                     |                      | (000659)                                    |
|            |            |                |  | 19.05                   | (000725)                         | 8.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5<br>5.5 | (00042)  | 20.02                                   | (000047)                                     |                      | 10007001                                    |
|            |            |                | (000752)<br>(000768)                           | 20.18<br>21.04<br>21.19 | (000772)<br>(000772)<br>(000791) | 20-20<br>21-09<br>21-21  | (000758)<br>(000778)<br>(000778)                 | 22.12                                   | (000762)                                     | 20.24                | (0000)                                      |
| 1          | 4          | 1              |  | 22.19                   | (000823)                         | 12-27  | (000826)   | 22.23                                   | (000824)                                     |                      |   |
|            |            |                | (0000958)<br>(0000967)<br>(001000)<br>(001015) | 5.12<br>7.02<br>7.20    | (000481)<br>(000485)<br>(001018) | 5.14<br>7.04<br>3.34   | (200,434)<br>(200,434)<br>(201,003)<br>(201,003) | 3 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - | (000976)<br>(000476)<br>(000991)<br>(001006) | 5.02<br>5.18<br>7.16 | (000942)<br>(000997)<br>(000994)<br>(001009 |
| (1,4000)   | 11.01      | 210            | 333  | 9.10                    |                                  |  |  |   |  |                      |   |
| [144000]   | 11.04      | 117            | 333  | 6.19                    |                                  |  |  |   |  |                      |   |
| (ct chach) | 11.06      | 212            | 333  | 8.19                    |                                  |  |  |   |  |                      |   |
| (1000438)  | 11.04      | 213            | 13,  | 9.19                    |                                  |  |  |   |  |                      |   |
| ( 24*090)  | 11-11      | 214            | 333  | 9.19                    |                                  |  |  |   |  |                      |   |
| (44)0001   | 11.13      | 215            | 333  | 8.19                    |                                  |  |  |   |  |                      |   |
| 944000     | 11.15      | \$1¢           | 333  | <b>8.</b> 19            |                                  |  |  |   |  |                      |   |
| 1000001    | 17.01      | 217            | 333  | 8.19                    |                                  |  |  |   |  |                      |   |
| reacont.   | 6.7        | 1217           | (000000)                                       | 11.16                   |                                  |  |  |   |  |                      |   |
| (21com)    | 3.71       | 1176           | (060303)                                       | 12.03                   |                                  |  |  |   |  |                      |   |
| 11 trans   | 12.16      | , AT >         | 133  | 8.19                    |                                  |  |  |   |  |                      |   |
| (1756-01)  | 1114       | 727            | 133  | 6.19                    |                                  |  |  |   |  |                      |   |
| (weep24)   | 17.16      | 177            | , ,  | 6-14                    |                                  |  |  |   |  |                      |   |
| 1125201    | 1, -18     | 777            | 13,  | 9.19                    |                                  |  |  |   |  |                      |   |
| (1000)     | 17.50      | 577            | 333  | 9.19                    |                                  |  |  |   |  |                      |   |
| (cechan)   | 15.01      | *77            | 133  | ::                      |                                  |  |  |   |  |                      |   |
|            |            |                | 1  |                         |                                  |  |  |   |  | 1                    |   |

10.04 10.17 11.10 45.00

|               |       |            | 1000   |                                  |   |  |  |   |  |                         |                                  |                      |
|---------------|-------|------------|--|----------------------------------|---|--|--|---|--|-------------------------|----------------------------------|----------------------|
|               |       |            | (000752)<br>(000768)<br>(000768)                         | 20-18<br>21-04<br>21-19<br>22-19 | (00072)<br>(000772)<br>(000741)             | 20°50<br>20°50<br>20°50<br>20°50<br>20°50<br>20°50 | (000778)<br>(000778)<br>(000785)                 | <b>20:22</b><br>20:22<br>20:22<br>20:23 | (000742)<br>(000781)<br>(000789)<br>(000829) | 22.23<br>22.23<br>22.23 | (00015)<br>(000744)<br>(00015)   | ####<br>####         |
| *********     | 10-21 | 1001       | 10000581<br>10010001<br>10010001<br>10010151<br>10010151 | 4.08<br>7.02<br>7.20             | 1000%ell<br>1000%f0<br>1000%g51<br>1001u185 | 5.14<br>5.15<br>7.04<br>23.35                      | (500,473)<br>(500,473)<br>(500,648)<br>(501,003) |   | (000976)<br>(000976)<br>(000991)<br>(001006) |                         | (000982)<br>(000994)<br>(001009) | 5.04<br>6.02<br>6.18 |
| (Cf+mn)       | 11.01 | 210        | 133  | <b>6.19</b>                      |   |  |  |   |  |                         |                                  |                      |
| 11940001      | 3.11  | 112        | 333  | 9.10                             |   |  |  |   |  |                         |                                  |                      |
| terment       | 11.00 | 212        | 333  | 6.13                             |   |  |  |   |  |                         |                                  |                      |
| { cuc418 }    | 11.04 | 213        | .81  | 61.6                             |   |  |  |   |  |                         |                                  |                      |
| t connect     | 11-11 | •12        | 333  | 8.19                             |   |  |  |   |  |                         |                                  |                      |
| 1 CAMPONI     | 11.13 | \$112      | 333  | 8.19                             |   |  |  |   |  |                         |                                  |                      |
|               | 11.15 | 416        | 333  | 61.8                             |   |  |  |   |  |                         |                                  |                      |
| 11.00/2019    | 12.01 | 113        | 333  |                                  |   |  |  |   |  |                         |                                  |                      |
| 1 cacara      | 64.54 | 1773       | 10050001   | 11.16                            |   |  |  |   |  |                         |                                  |                      |
| 1.16mm)       | 14.04 | 1175       | (040903)   | 12.03                            |   |  |  |   |  |                         |                                  |                      |
| i-icon)       | . 10  | 117        | (fr  | • 7.7                            |   |  |  |   |  |                         |                                  |                      |
| 11150001      | 11.11 | ,17        | 133  | 9-19                             |   |  |  |   |  |                         |                                  |                      |
| 10.003        |       | 9,77       | 133  | 9.10                             |   |  |  |   |  |                         |                                  |                      |
| (most of man) | 17.16 | 177        | ***  | 9.14                             |   |  |  |   |  |                         |                                  |                      |
| 1,4000        | 14    | 777        | 13.  | 9.10                             |   |  |  |   |  |                         |                                  |                      |
| 1,5000,14     | 77.7  | 597        | ,,,  | 91.9                             |   |  |  |   |  |                         |                                  |                      |
| 1 ce count    | 15.01 | •57        | ÇŢ   | 91.8                             |   |  |  |   |  |                         |                                  |                      |
| factored      | 20.00 | ç.,        | 333  | 9.10                             |   |  |  |   |  |                         |                                  |                      |
| 144.5.191     | 17.65 | 97         | 33,  | 9.19                             |   |  |  |   |  |                         |                                  |                      |
| 1             | 13.67 |            | 133  | 9.19                             |   |  |  |   |  |                         |                                  |                      |
| free peri     | 13.04 | ,,,        | 233  | 4:10                             |   |  |  |   |  |                         |                                  |                      |
| (cocoon)      | 11.61 | *          | 333  | 8.14                             |   |  |  |   |  |                         |                                  |                      |
| (m. 53 13     | 13.13 | 107        | 333  | 9.19                             |   |  |  |   |  |                         |                                  |                      |
| (14:052)      | 11.15 | 234        | 333  | 91.8                             |   |  |  |   |  |                         |                                  |                      |
| 14,05571      | 13.17 | 433        | 133  | 9.10                             |   |  |  |   |  |                         |                                  |                      |
| 1005000       | 12.14 | 134        | 333  | 6.19                             |   |  |  |   |  |                         |                                  |                      |
| (tocoun)      | 13.21 | ŝ          | 333  | 8.19                             |   |  |  |   |  |                         |                                  |                      |
| 10003001      | 15.23 | <b>₹</b> ~ | 333  | 9.14                             |   |  |  |   |  |                         |                                  |                      |
| 1405001)      | 10.01 | 237        | 333  | <b>9.</b> 14                     |   |  |  |   |  |                         |                                  |                      |
| ٩             |       |            |  |                                  |   |  |  |   |  |                         |                                  |                      |

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|                                  | SEQUENCE NO. AND PAGE/BOX1 |          |          |            |           |          |      |          |          |             |             |             |           |           |   |           |           |          |            |         |          |         |          |            |           |         |            |          |            |            |            |          |             |       | •        |      |       |                   |            |                 |          |            |           |             |             |      |          |
|----------------------------------|----------------------------|----------|----------|------------|-----------|----------|------|----------|----------|-------------|-------------|-------------|-----------|-----------|---|-----------|-----------|----------|------------|---------|----------|---------|----------|------------|-----------|---------|------------|----------|------------|------------|------------|----------|-------------|-------|----------|------|-------|-------------------|------------|-----------------|----------|------------|-----------|-------------|-------------|------|----------|
| - FWD/SCL                        | MCE NO. /                  |          |          |            |           |          |      |          |          |             |             |             |           |           |   |           |           |          |            |         |          |         |          |            |           |         |            |          |            |            |            |          |             |       |          |      |       | 61 22.11          |            |                 |          |            |           |             |             |      |          |
| WART SET -                       | ISOURCE SEQUE              |          |          |            |           |          |      |          |          |             |             |             |           |           |   |           |           |          |            |         |          |         |          |            |           |         |            |          |            |            |            |          |             |       |          |      |       | 10008101          |            |                 |          |            |           |             |             |      |          |
| AUTOFLOW CHART SET               | CES 150                    |          |          |            |           |          |      |          |          |             | 15.12       |             |           | 24.37     |   |           |           |          |            |         |          |         |          |            |           |         |            |          |            |            |            |          |             |       |          |      |       | 22.07             |            |                 |          |            |           |             |             |      | !        |
| 4                                | AEFERENCES                 |          |          |            |           |          |      |          |          |             | (000588)    |             |           | (000423)  |   |           |           |          |            |         |          |         |          |            |           |         |            |          |            |            |            |          |             |       |          |      |       | 10008051          |            |                 |          |            |           |             |             |      |          |
| PERENCE                          |                            | 6.21     | 14.06    | 14.08      | 14.10     | 19.01    |      | 15.03    | 15.05    | 15.07       | 15.10       | 24.38       | 24.38     | 16.07     | 16.09                                   | 8.21      | 16.17     | 8.21     | 8.21       | 8.21    | 8-21     | 8.21    | 8.21     | 8.21       | 8.21      | ••01    | 4.01       | ••01     | 4.01       | ٠.0        | .0.        | 1.01     | •.01        | ••01  | 10.4     | 10.4 | 4.01  | 18.17             | 18.09      | 11.11           | 16-13    | 4.01       | .01       | 10.4        | 10.0        | 4.01 | 10.01    |
| TABLE OF CONTENTS AND REFERENCE! |                            | 337      | (115000) | (845000)   | (0000279) | 10005001 |      | (060581) | 10005821 | (000563)    | (0000)      | 100001      | (9000425) | (0000286) | (1000003)                               | 337       | (000012)  | 337      | 337        | 137     | 33.7     | 188     | 337      | 155        | 33.7      | 334     | 134        | 334      | 334        | 334        | 134        | 334      | 334         | 339   | 339      | 334  | 334   | (<000083)         | 10000101   | 1000080)        | 100009   | 334        | 334       | 334         | 334         | 334  | (00000)  |
| LE DF CONT                       | NA.                        | 361      |          |            |           |          | 1061 |          |          |             | 1062        | 1961        | 1050      | 1961      |   | 302       |           | 20.5     | 304        | \$0\$   | 300      | 706     | 300      | 304        | 310       | 104     | 405        | •63      | *5         | Ş          | 30.4       | £0.4     | 404         | 404   | +10      | +13  | 450   | 1420              |            |                 |          | 12+        | 77.5      | 57.         | ÷           | 974  | 97       |
| 146                              | PAGE/BOX                   | 14.03    | 34.08    | 14.16      | 19.61     | 15.03    |      | 15.05    | 15.67    | 15.06       | 15.14 2     | \$ 10-01    | leset b.  | 11.0      | 10-12                                   | 0.10 31   | 10.14     | 15.0     | 16 62.01   | 16 23.0 |          | 17.01   | 17.43 3  | 47.US 30   |           | 17.05   |            | 17.13 *  | 11.15 40   | 17.17      | 17.1" "    | 17.71    | 17.63 40    | 10.51 | 12.03 4  |      | 18-01 |                   | 11.31      | 61-11           | 41.41    | 16.10 %    | 16.16     | 16.20       |             |      | Y-03 14  |
| . 2/11/40                        | CARU ID P.                 | 1675000) | (875000) | (4,250,00) |           |          |      |          |          | [ [*86,030] | [ [644,000] | 1 (646,-01) | luwsyd) 1 | 1 1024 11 | 1 (************************************ | 4 (110000 | l ectorol | (Ocelos) | [ (4.0 ma] | (17900) | (conor.) | 1000011 | [160000] | 1 (*60,00) | (1000637) | 1000001 | i lampanni | ( (move) | ( Pacauan) | ( (+<9nna) | 1 (1/2000) | 100,061) | 1 (*******) |       | 10000001 |      |       | [ [ 1/2 0 0 7 1 ] | 1 tappami) | (Cur. 0 c. 1) 1 | (vacete) | 1 (150000) | 10,000,01 | 1 (1740:17) | 1 (340,000) |      | t tuntum |
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| (1,000,00)  | 16.16      | *22  | 334      | 10.        |                 |       |        |       |
| (14. 04.1)  | 14.40      | 77.  | 334      | 10.4       |                 |       |        |       |
| 1440301     | 16.24      | *7.  | 336      | 4.01       |                 |       |        |       |
| 1000001     | 14.01      | 4.0  | 33.      | 10.4       |                 |       |        |       |
| tool loot   | 14.03      | 1440 | (30/000) | 16.03      |                 |       |        |       |
| t von Joe I | \$0.¥1     | 5+50 | 1000000  | 18,24      | (941000)        | 22.03 |        |       |
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| 1 control   | 14.06 436  | *30  | 466      | 10.        |                 |       |        |       |
| 12120001    | 16. 01.41  | 18.  | 334      | 10.0       |                 |       |        |       |
| 1 clfum)    | 14.12 +32  | 35.  | *55      | 10.        |                 |       |        |       |
| 1007303     | 14.14 +33  | +33  | 334      | 4.01       |                 |       |        |       |
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| (27,000)    | 14.14      |      | (126000) | 19.17      |                 |       |        |       |
| (6000723)   | 14.41      |      | 10001221 | 19.19      |                 |       |        |       |
| ( 000 724 ) | 14.23      |      | (000123) | 19.21      |                 |       |        |       |
| (1001725)   | 19.25      |      | (000724) | 19.23      |                 |       |        |       |
| (47,000)    | 10.02      | ¥    | 334      | ••01       |                 |       |        |       |
| 1427-001    | 20.03      | 435  | 956      | •.01       |                 |       |        |       |

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| (1000732)      | 20.05    | 436                              | 339         | 4.01    |   |
| (CMU735)       | 20.07    | 437                              | 339         | 10.0    |   |
| 1060738)       | 20.09    | 9**                              | 339         | ••01    |   |
| (00-741)       | 26.11    | 7                                | 339         | 10.0    |   |
| 100,744)       | 20.13    | 151                              | 339         | 10-6    |   |
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| 1000 1001      | 20.17    | <b>453</b>                       | 334         | 4.01    |   |
| 1 ( CC ( CO) ) | * T* 07  | <b>*</b> 5 <b>*</b>              | 335         | 9.01    |   |
| (1001-750)     | 70.53    | 455                              | 334         | 4.01    |   |
| 1 www Town     | 40.23    | *5¢                              | 404         | 10.0    |   |
| (colum)        | 77.01    | .53                              | 339         | ••01    |   |
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| 1407000)       | 43.65    | *64                              | 466         | 10.4    |   |
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| (ATIMA)        | 41.04    |                                  | (1111)      | 21.07   |   |
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| (mn/let)       | 21.10    | 103                              | 334         | 4.01    |   |
| 1001/101       | 41.15    | 105                              | (0000+13)   | 60.6    |   |
| 1000737)       | 21.20    | \$115                            | 10000111    | 4.03    |   |
| (100,702)      | 21.72    | ****                             | (000417)    | ٠٠٠٥    |   |
| lew 7901       | 10.27    | \$0\$                            | (10000)     | 6.03    |   |
| (Topon)        | 40.77    | 975                              | 10000171    | 9.03    |   |
| ( couside)     | 42.ve    | 503                              | (17000)     | 60.6    |   |
| 10000111       | 22.12    | 306                              | (Occu417)   | ÷-03    |   |
| totoppo        | 22.10    | \$0\$                            | (15000)     | 9.03    |   |
| (100.821)      | 42.50    | 516                              | 100001      | 9.03    |   |
| [100.084]      | 75.037   | 1114                             | (0000417)   | 6.03    |   |
| Hura. D        |          | 215                              | (11-000)    | 4.03    |   |
| 1006223        | 10.02    | 200                              | 330         | 11.8    |   |
| (5£3mn)        | 23.02    | 110                              | 330         | 8.17    |   |
| (wedow)        | 23.03    | 111                              | 330         | 8.17    |   |
| 10000351       | 23.04    | 114                              | 350         | 8.17    |   |
| (00000)        | \$3.05   | \$11                             | 330         | 8.17    |   |
| 16uc c 371     | 23.60    | 116                              | 330         | 9.1     |   |
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| [cances]       | 73.11    | 907                              | 353         | 3.14    |   |
| (channe)       | 23.1c    | 10.7                             | 133         | 9.14    |   |
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| (wash)         | 73.10    |                                  | 751         | 17.9    |   |
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|           |          | 5        | •        |               | ~        | ^           | ,        |         |          | ,        |           | ,                                       | ,       |           | ,        | ,        | ,         | _        |          | _        | -        | _       | -            | _        | -        | -           | _        | _         |            | -       | _        | _           |
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|           |          |          |          |               |          |             |          |         |          |          | _         | _                                       |         |           |          |          |           |          | _        |          | -        | 4.01    |              | •        | -        |             | Ť        | -         | -          | •       | •        | ·           |
| 141400)   | 10000173 | (CCO#17) | 121-0001 | 330           | 330      | 930         | 350      | 936     | 755      | 930      | 330       | 666                                     | 133     | 123       | 575      | 555      | . 24      | 33.6     | , , ,    | 466      | 46.6     | ٧٠٠     | 464          | 466      | 484      | 466         | 488      | 454       | 137        | 455     | 484      | ž.          |
| 22.10 500 |          |          |          |               |          |             |          |         |          |          |           |   |         |           |          |          |           |          |          |          |          |         |              |          |          |             |          |           |            |         |          |             |
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| TACKE ET LETTENTS AND PEFEBBACKS ACTUBLUM (MPS) SIT — PMC/SCL<br>LA NAME |           |             |          |               |               |           |           |           |           |           |           |           |           |           |           |           |             |           |           |          |          |           |           |          |  |  |  |               |               | 10003491 4.02 |            |       |            |                | (000806) 22.10 |            | (000705) 19.05 855 25.17 (001058) 25.18 |               |  |
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| PACIFICA NAME  | 264 36454 | 20.03 449   | 456.6.   | . ) (         | 23,3% (450)   | 50.01 In7 | 24.0. 109 | 24.02 112 | 24.04 119 | 2**05 120 | 24.UC 235 | 24.07 240 | 24-06 241 | 24.64 245 | 24.10 243 | ***11 311 | 24-17 - 111 | 24-13 412 | 24.14 4/4 | 47. 4[)  |          | 24.10 464 | 24-17 405 |          |  |  |  | 2x22 2x4      |               | 25.01 1710    | 25.06      | 2>.0* | 25.11 1720 | 25.16 1302     | 25.16 1506     | 26-01 1744 | 7941 60.05                              | Z6.04 1 500   |  |
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|               | 10003451 3.11       | [600347]   | (46000)     | (001033) 25.03 | 10010361 25.06 | 0.48       | 100000131 16.19 | fucusu31 22.06 | (000,46)   | 10005421 15,13 | 10003401   | (uuuval) 3.20 |
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CHART TITLE - NON-FRUCELUCKAE STATEMENTS

CHART TITLE - INTRUMOCTORY COMMENTS

CHAKT TITLE - PHULEDUNES

| \$2.21         | 36.01     | 35.13          | 35.14           | 36.08          | 35.27         |
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| 35.00 890      | 35-17 694 | 35.15 2060     | 35.17 2050      | 25.14          | 30.01         |
| (101129)       | 1001351   | 1021 7201      | (111100)        | 1961100)       | (101147)      |

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| total lastimi   | *** **   | foollost   | 35.14   |           |       |              |        |             |        |           |       |
|-----------------|----------|------------|---------|-----------|-------|--------------|--------|-------------|--------|-----------|-------|
| twills., 3c.u   | .00 1000 | 10111101   | 37.0%   | (401217)  |       | (001214)     | 32.10  | (1221)      | 38.17  | (tw1223)  |       |
|                 |          | 10012253   | 35.16   | (7.2100)  | 34.14 | (47.100)     | 31.20  | 10012311    | 36.42  | (001233)  | 36.24 |
|                 |          | 10012511   | 34.14   | 10017541  |       | (1001.57)    | 02.46  | (001254)    | 34.46  | 10012611  |       |
|                 |          | (no1263)   | 34.76   | (001705)  |       | (m)/67)      | 34.30  | (001264)    | 34.32  | 10012111  |       |
|                 |          | (001263)   | *0.1    | (001285)  |       | (001207)     | 34.04  | (001289)    | 2      | 1971001   |       |
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|                 |          | (001317)   | 70.14   | (501304)  |       | (401311)     | 27     | (1001313)   | 200    | 15150     |       |
|                 |          | 10013301   | 41.76   | 10013321  |       | (001334)     | 41.30  | (001336)    | 42.02  | 10013411  |       |
|                 |          | 10023431   | 42.08   | 1001,461  |       | (101246)     | 42-13  | (001350)    | 42.15  | 1755 1001 |       |
|                 |          | (001364)   | 52.24   | 10013001  |       | (075,100)    | 44.33  | (001372)    | 43.02  | 19013001  |       |
|                 |          | 10013761   | 43.06   | 10013751  |       | ( 00) 380 )  | 43.10  | (001382)    | 43.12  | 10013841  |       |
|                 |          | 10013801   | 43.70   | (001386)  |       | 10013401     | 43.20  | 1001342     | 7.5    | 445 [00]  |       |
|                 |          | (441419)   | 45.04   | 1001408)  |       | 10014100     | 44.08  | (001412)    | 01.44  | (0014141  |       |
|                 |          | 19771001   | 77. 77. | 10014141  |       | 1001-21)     | 7 7 7  | 10014241    | 22.43  | 10014261  |       |
|                 |          | (001446)   | 49.64   | 1001      |       | ( *** ( OO ) | 45.13  | 10014461    | 45.15  | 1001448   |       |
|                 |          | 10014201   | 45.19   | 17551001  |       | (001454)     | 45.23  | (95 \$ 100) | 45.25  | 10014583  |       |
|                 |          | (00.14.00) | 40.04   | 17971001  |       | 1001404      | 70.04  | 1901489     | 40.04  | 199100    |       |
|                 |          | (02*100)   | 46.18   | (001482)  |       | 10014041     | *6.22  | 10014861    | 40.24  | 1001488   |       |
|                 |          | (001490)   | 46.28   | (001442)  |       | (00)         | 46.32  | (1601497)   | 70.74  | 1001+661  |       |
|                 |          | 12051001   | 41.07   | 1 5051001 |       | 10012001     | 47.12  | (001508)    | 47.14  | 10015100  |       |
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|                 |          | (001623)   | 51.02   | 10016321  |       | 10016341     | 51.16  | 10016481    | \$2.15 | 10016571  |       |
|                 |          |            | •       | 1100001   |       |              |        |             |        |           |       |
| 11.05 1791100   | 14,6 11  | (091700)   | 36.10   |           |       |              |        |             |        |           |       |
| (1001163) 36.17 | 256 21   | 10011001   | 36.10   |           |       |              |        |             |        |           |       |
|                 |          | i          | ;       |           |       |              |        |             |        |           |       |
| 71.96 (171100)  | 13 458   | 110011671  | 36.15   |           |       |              |        |             |        |           |       |
| (001178) 36.24  | 4.       | 10011761   | 30,21   |           |       |              |        |             |        |           |       |
|                 |          |            |         |           |       |              |        |             |        |           |       |
| 0011841 37.02   | 75 666   | (151100)   | 36.26   |           |       |              |        |             |        |           |       |
| 10011011 37.06  | 2100     | (001185)   | 37.03   |           |       |              |        |             |        |           |       |
|                 | 3        |            | ;       |           |       |              |        |             |        |           |       |
|                 |          | root root  | •       |           |       |              |        |             |        |           |       |
| (001146) 37.13  | 13 200   | 11811001   | 37.05   |           |       |              |        |             |        |           |       |
| (001260) 37.15  | 306 51   | (001188)   | 37.06   |           |       |              |        |             |        |           |       |
| 11 12 1000      |          | 100010001  |         |           |       |              |        |             |        |           |       |
|                 |          | 1.001      | 10:16   |           |       |              |        |             |        |           |       |
| 10012061 36.02  |          | (001100)   | 37.10   |           |       |              |        |             |        |           |       |
| 100121.71 38.00 | 707      | (00)144)   | 37.12   |           |       |              |        |             |        |           |       |
|                 |          |            |         |           |       |              |        |             |        |           |       |
|                 |          | 1511001    | 21.16   |           |       |              |        |             |        |           |       |
| 9012183 36.04   |          | 10011441   | 37.12   |           |       |              |        |             |        |           |       |
| 10012201 36.11  | 104      | (001194)   | 37.12   |           |       |              |        |             |        |           |       |
|                 |          |            | ;       |           |       |              |        |             |        |           |       |
|                 |          | 15011001   | 21.16   |           |       |              |        |             |        |           |       |
| (w1224) 38.15   | 106      | (541150)   | 37.12   |           |       |              |        |             |        |           |       |
| (001226) 38.17  | 801 2    | 101941     | 37.12   |           |       |              |        |             |        |           |       |
| 21 21 1361007   | 3        | 4          | ;       |           |       |              |        |             |        |           |       |
|                 |          | 1 201      | 21.16   |           |       |              |        |             |        |           |       |
| 17.36 10851001  | 111      | 10011441   | 17.12   |           |       |              |        |             |        |           |       |
| 1430 38.23      | 5 113    | (1001144)  | 37.17   |           |       |              |        |             |        |           |       |
|                 |          | 7,7100     | 17-12   |           |       |              |        |             |        |           |       |
|                 |          |            |         |           |       |              |        |             |        |           |       |
| 10012341 34.0   |          | 10011441   | 27.12   |           |       |              |        |             |        |           |       |
| 10.01           | 011 20   | 10011461   | 37.12   |           |       |              |        |             |        |           |       |
| 40.45 34.0V     | 111      | (%/Ino)    | 37.12   |           |       |              |        |             |        |           |       |
|                 | =        | 4511901    | 21.12   |           |       |              |        |             |        |           |       |
|                 |          |            |         |           |       |              |        |             |        |           |       |
| (On: 0) 34.13   |          | (261100)   | 7.7     |           |       |              |        |             |        |           |       |
|                 |          |            |         |           |       |              |        |             |        |           |       |

| (10017071) 37.02 2406 (1001182) 37.03 (1001184) 37.04 (1001184 |            |       | į    |           |       |
|--|------------|-------|------|-----------|-------|
|  | 1202.000   | 3. 4  |      | 11811001  | 30.06 |
| (001184)         37,11         100           (001184)         37,11         200         (001187)           (001202)         37,12         200         (001187)           (001202)         37,13         200         (001184)           (001202)         37,13         400         (001184)           (001212)         38,00         101         (001184)           (001212)         38,00         102         (001184)           (00122)         38,01         100         (001184)           (00122)         38,13         405         (001184)           (00123)         38,13         405         (001184)           (00123)         38,13         405         (001184)           (00123)         38,13         405         (001184)           (00123)         38,13         405         (001184)           (00123)         38,13         405         (001184)           (00123)         38,03         38,03         38,03         38,03           (00123)         38,03         38,03         38,03         38,03           (00124)         38,03         38,03         38,03         38,03           (00125)         38,03  | 1.04 7001  | 37.06 | 2100 | 10011821  | 37.63 |
| (001184)         37.13         200         (001187)           (001202)         37.13         300         (001188)           (001202)         37.11         400         (001184)           (001213)         35.02         300         (001184)           (001213)         35.02         300         (001184)           (001213)         35.02         300         (001184)           (001223)         36.11         100         (001184)           (00123)         36.13         100         (001184)           (00123)         36.13         100         (001184)           (00123)         36.13         100         (001184)           (00123)         36.13         100         (001184)           (00123)         36.13         110         (001184)           (00123)         36.13         110         (001184)           (00123)         36.01         113         (001184)           (00124)         36.13         110         (001184)           (00125)         36.13         110         (001184)           (00126)         36.13         110         (001184)           (00126)         36.13         110         (001184)<  | 16411431   | 37.11 | 3    | 10011801  | 37.04 |
| (001201)         3.1.13         3.00         (001188)           (001202)         3.7.11         4.00         (001184)           (001202)         3.8.12         5.00         (001184)           (001218)         3.8.10         1.0         (001184)           (001218)         3.8.10         1.0         (001184)           (001220)         3.8.11         1.0         (001184)           (001220)         3.8.13         4.0         (001184)           (001220)         3.8.13         4.0         (001184)           (001230)         3.8.13         4.0         (001184)           (001230)         3.8.13         4.0         (001184)           (001230)         3.8.13         4.0         (001184)           (001230)         3.8.13         4.0         (001184)           (001231)         3.8.13         4.0         (001184)           (001232)         3.8.13         4.0         (001184)           (001232)         3.8.11         11         (001184)           (001232)         3.8.11         11         (001184)           (001232)         3.8.11         11         (001184)           (001232)         3.8.11         1   | (00) 1401  | 37.13 | 902  | 12811001  | 37.05 |
| (001202)         37.11         400         (001104)           (001201)         38.02         500         (001104)           1250         38.04         103         (001104)           (001218)         38.04         103         (001104)           (001222)         38.11         104         (001104)           (001223)         38.13         405         (001104)           (001234)         38.13         405         (001104)           (001234)         38.13         405         (001104)           (001234)         38.13         405         (001104)           (001234)         38.04         111         (001104)           (001234)         38.05         113         (001104)           (001234)         38.04         117         (001104)           (001235)         38.04         117         (001104)           (001234)         38.04         117         (001104)           (001235)         38.04         117         (001104)           (001236)         38.04         117         (001104)           (001236)         38.04         117         (001104)           (001237)         38.04         117         (0  | 10012001   | 37.15 | 3.60 | (001188)  | 37.00 |
| (001201)         35.02         5.00         10011961           (001213)         35.02         5.00         10011962           (120)         38.06         102         (001104)           (001212)         38.11         104         (001104)           (001220)         38.11         106         (001104)           (001220)         38.11         106         (001104)           (001230)         38.12         106         (001104)           (001230)         38.12         110         (001104)           (001231)         38.01         111         (001104)           (001232)         38.01         113         (001104)           (001233)         38.02         113         (001104)           (001234)         38.01         114         (001104)           (001233)         38.02         113         (001104)           (001234)         38.01         114         (001104)           (001235)         38.01         113         (001104)           (001234)         38.01         114         (001104)           (001235)         38.01         113         (001104)           (001236)         38.01         114 <th< th=""><th>10012021</th><th>37.17</th><th>90+</th><th>10011891</th><th>37.07</th></th<>  | 10012021   | 37.17 | 90+  | 10011891  | 37.07 |
| 1.50   34.00   101   (001194)   (001218)   34.00   102   (001194)   (001220)   34.00   103   (001194)   (001220)   34.10   (001194)   (001220)   34.11   106   (001104)   (001220)   34.12   106   (001104)   (001220)   34.12   106   (001104)   (001220)   34.12   106   (001104)   (001220)   34.12   106   (001104)   (001220)   34.12   106   (001104)   (001220)   34.13   106   (001104)   (001220)   34.13   203   (001104)   (001220)   34.13   203   (001104)   (001220)   34.13   203   (001104)   (001104)   (001220)   34.13   203   (001104)   (001104)   (001220)   34.13   203   (001104)   (001104)   (001220)   34.23   203   (001104)   (001104)   (001220)   34.23   203   (001104)   (001104)   (001220)   34.23   203   (001104)   (001104)   (001220)   34.23   203   (001104)   (001104)   (001220)   (001104)   (001104)   (001220)   (001104)   (001220)   (001104)   (001104)   (001104)   (001220)   (001104)   (001220)   (001104)   (001220)   (001104)   (001220)   (001104)   (001104)   (001220)   (001104)   (001220)   (001104)   (001104)   (001220)   (001104)   (00   | 10015001   | 34.02 | 30,  | 10611001  | 37.10 |
| 1290   38.06   10.0     | (w) 23./3  | 36.04 | 101  | (**!!**)  | 37.12 |
| (001218)         34,00         103         (001104)           (001220)         36,11         104         (001104)           (001220)         36,11         106         (001104)           (001220)         36,12         106         (001104)           (001220)         36,12         110         (001104)           (001230)         36,21         111         (001104)           (001230)         36,21         111         (001104)           (001230)         36,21         111         (001104)           (001231)         36,00         113         (001104)           (001232)         36,00         113         (001104)           (001232)         36,00         113         (001104)           (001232)         36,00         113         (001104)           (001232)         36,00         114         (001104)           (001232)         36,00         116         (001104)           (001232)         36,00         1001104)           (001232)         36,00         1001104)           (001232)         36,00         1001104)           (001232)         36,00         1001104)           (001232)         36,00   | 05.71      | 38.06 | 701  | 100114-1  | 37.12 |
| (001220)         36.11         104         (001194)           (001222)         36.13         4.0         (001194)           (001224)         36.13         4.0         (001194)           (001224)         36.17         1.0         (001194)           (001230)         36.21         111         (001194)           (001230)         36.21         111         (001194)           (001232)         36.21         113         (001194)           (001232)         36.0         113         (001194)           (001232)         36.0         113         (001194)           (001232)         36.0         113         (001194)           (001232)         36.0         114         (001194)           (001232)         36.0         114         (001194)           (001232)         36.1         116         (001194)           (001232)         36.1         100         (001194)           (00124)         36.1         100         (001194)           (001252)         36.1         1001194)         (001184)           (001264)         36.2         1001194)         (001184)           (001264)         36.2         1001184) <th>(001218)</th> <th>36.04</th> <th>103</th> <th>[00]]**]</th> <th>37.12</th>   | (001218)   | 36.04 | 103  | [00]]**]  | 37.12 |
| (001222)         38.13         405         (001194)           (001224)         38.13         405         (001194)           (001224)         38.17         108         (001194)           (001234)         38.17         108         (001194)           (001234)         38.21         111         (001194)           (001235)         38.21         111         (001194)           (001234)         38.21         113         (001184)           (001235)         38.20         113         (001184)           (001235)         38.21         113         (001184)           (001235)         38.21         113         (001184)           (001235)         38.21         203         (001184)           (001235)         38.21         203         (001187)           (001236)         38.21         203         (001187)           (001236)         38.21         203         (001187)           (001284)         38.21         203         (001187)           (001284)         38.21         203         (001187)           (001284)         38.21         203         (001187)           (001284)         38.21         203 <t< th=""><th>10012201</th><th>36.11</th><th>3</th><th>10011441</th><th>37.12</th></t<>   | 10012201   | 36.11 | 3    | 10011441  | 37.12 |
| (001224)         38.13         160         (001194)           (001224)         38.17         168         (001194)           (001234)         38.17         110         (001194)           (1001230)         38.21         111         (001194)           (1001234)         38.21         111         (001194)           (1001234)         38.01         112         (001194)           (1001234)         38.01         117         (001184)           (1001235)         38.01         117         (001184)           (1001235)         38.01         117         (001184)           (1001235)         38.11         118         (001184)           (1001235)         38.11         118         (001184)           (1001235)         38.11         118         (001184)           (1001235)         38.11         118         (001184)           (1001236)         38.21         203         (001184)           (1001284)         38.21         203         (001184)           (1001284)         38.21         203         (001184)           (1001284)         38.21         203         (001184)           (1001284)         38.21         203<   | (522)      | 36.13 | 407  | 10011441  | 37.12 |
| (001226)         38.17         168         (001194)           (001224)         38.18         110         (001194)           (1430)         38.21         111         (001194)           (1431)         38.21         111         (001194)           (1401234)         38.21         113         (001194)           (1401234)         38.01         117         (001194)           (1401234)         38.01         117         (001184)           (1401235)         38.01         117         (001184)           (1401236)         38.01         118         (001184)           (1401236)         38.01         100         (001187)           (1401236)         38.01         203         (001187)           (1401286)         38.01         203         (001187)           (1401286)         38.01         203         (001187)           (1401286)         38.01         203         (001187)           (1401286)         38.01         203         (001187)           (1401286)         38.01         203         (001187)           (1401286)         38.01         203         (001187)           (1401287)         203         (001187) <th>1403 2243</th> <th>38.15</th> <th>100</th> <th>(001154)</th> <th>37.12</th>  | 1403 2243  | 38.15 | 100  | (001154)  | 37.12 |
| (001226)         36.10         110         (001104)           (1430)         36.21         111         (001104)           (1430)         36.21         113         (001104)           (1001234)         36.01         115         (001104)           (1001234)         36.01         115         (001104)           (1001234)         36.07         116         (101104)           (1001235)         36.01         117         (101104)           (1001235)         36.11         116         (101104)           (1001235)         36.12         203         (101104)           (1001256)         36.21         203         (101104)           (1001264)         36.21         203         (101104)           (1001265)         36.21         203         (101104)           (1001264)         36.23         203         (101104)           (1001264)         36.23         203         (101104)           (1001264)         36.23         203         (101104)           (1001264)         36.23         203         (101104)           (1001264)         36.23         203         (101104)           (1001276)         36.23         203  | 10017501   | 38.17 | 108  | 10011441  | 37.12 |
| (001230)         36.21         111         (001104)           1430         36.21         113         (001104)           (001234)         36.01         115         (001104)           (001234)         36.07         116         (001104)           (001235)         36.07         117         (001104)           (001235)         36.11         118         (001104)           (001235)         36.11         118         (001104)           (001235)         36.12         202         (001104)           (001235)         36.13         203         (001104)           (001256)         36.21         204         (001104)           (001264)         36.22         203         (001104)           (001264)         36.23         203         (001104)           (001264)         36.23         203         (001104)           (001264)         36.23         203         (001104)           (001266)         36.23         203         (001104)           (001266)         36.23         203         (001104)           (001267)         36.23         203         (001104)           (001267)         36.23         (001104)  | (001228)   | 36.10 | 011  | 100114-1  | 37.12 |
| (44)2         34-23         113         (401194)           (401235)         34-61         114         (401194)           (401234)         34-61         115         (401184)           (401242)         34-67         116         (401184)           (401252)         34-67         117         (401184)           (401252)         34-13         203         (401187)           (401252)         34-13         203         (401187)           (401252)         34-13         203         (401187)           (401252)         34-23         203         (401187)           (401263)         34-23         203         (401187)           (401264)         34-23         203         (401187)           (401264)         34-23         203         (401187)           (401264)         34-23         203         (401187)           (401264)         34-23         203         (401187)           (401276)         34-23         203         (401187)           (401276)         34-23         203         (401187)           (401276)         34-3         203         (401187)           (401276)         34-3         30-3         30  | (001230)   | 36.21 | 111  | (001144)  | 37.12 |
| (001239)         34.01         114         (001194)           (001234)         34.02         115         (001144)           (001242)         34.02         117         (001144)           (001242)         34.01         117         (001144)           (001252)         34.11         116         (001147)           (001252)         34.12         202         (001147)           (001252)         34.12         203         (001147)           (001254)         34.21         204         (001147)           (001264)         34.22         203         (001147)           (001264)         34.23         203         (001147)           (001264)         34.23         203         (001147)           (001264)         34.23         203         (001147)           (001264)         34.23         203         (001147)           (001265)         34.21         204         (001147)           (001276)         34.21         204         (001147)           (001276)         34.21         204         204           (001276)         34.21         204         204           (001277)         204         204         204   | 1430       | 36.23 | 113  | 10011441  | 37.12 |
| (001239)         39,0°         115         (001194)           (001243)         39,0°         116         (001194)           (001252)         39,0°         117         (001194)           (001252)         39,11         118         (001194)           (001252)         39,11         203         (001197)           (001253)         39,18         203         (001197)           (001264)         39,23         203         (001197)           (001264)         39,23         203         (001197)           (001264)         39,23         203         (001197)           (001264)         39,23         203         (001197)           (001264)         39,23         203         (001197)           (001264)         39,23         203         (001197)           (001276)         39,23         203         (001197)           (001276)         39,23         203         (001197)           (001277)         204         (001197)           (001277)         205         (001197)           (001278)         207         201197           (001274)         207         207           (001167)         207         20119  | (100) 235) | 35.61 | 11:  | 10011541  | 37.12 |
| (0012-3)         94.07         110         (001104)           (0012-3)         34.04         117         (001104)           (0012-3)         34.11         118         (001104)           (0012-3)         34.13         203         (001107)           (0012-3)         34.13         203         (001107)           (0012-3)         34.21         204         (001107)           (0012-3)         34.23         205         (001107)           (0012-3)         34.23         205         (001107)           (0012-3)         34.23         205         (001107)           (0012-3)         34.23         207         (001107)           (0012-3)         34.21         207         (001107)           (0012-3)         206         (001107)           (0012-3)         207         (001107)           (0012-3)         207         (001107)           (0012-3)         207         (001107)           (0012-3)         207         (001107)           (0012-3)         207         (001107)           (0012-3)         207         (001107)           (0012-3)         207         (001107)           (001107)   | 10015361   | 34.04 | 115  | 15611671  | 37.12 |
| (0012x)         39,0x         117         (00119x)           (0012x)         39,11         118         (00119x)           (0012x)         30,11         201         (00119x)           (0012x)         30,12         202         (00119x)           (0012x)         30,21         203         (00119x)           (0012x)         30,22         203         (00119x)           (0012x)         30,23         203         (00119x)           (0012x)         30,03         30         (00118x)           (0012x)         30,03         31         (00118x)           (0012x)         30         30         (00118x)           (0012x)         30         30         (00118x)  | 10012433   | 34.07 | 110  | 10011541  | 37.12 |
| (001247)         39.11         118         (001194)           (001256)         39.13         201         (001197)           (001252)         39.13         202         (001197)           (001254)         39.21         203         (001197)           (001264)         39.23         203         (001197)           (001264)         39.23         203         (001197)           (001264)         39.23         203         (001197)           (001264)         39.23         203         (001197)           (001264)         39.24         203         (001197)           (001270)         39.24         203         (001197)           (001270)         39.23         207         (001197)           (001271)         40.01         210         (001197)           (001271)         40.02         212         (001187)           (001271)         40.02         212         (001187)           (001274)         40.02         212         (001187)           (001280)         212         (001187)           (001280)         212         (001187)           (001280)         212         (001187)           (001280)   | (461545)   | 34.04 | 117  | 10011441  | 37.12 |
| (001250)         39,11         201         (001197)           (001252)         39,12         202         (001197)           (001254)         39,21         204         (001197)           (001264)         39,22         205         (001197)           (001264)         39,22         205         (001197)           (001264)         39,27         207         (001197)           (001264)         39,27         207         (001197)           (001270)         39,27         207         (001197)           (001270)         30,01         210         (001197)           (001271)         40,01         210         (001197)           (001274)         40,00         214         (001187)           (001274)         40,00         214         (001187)           (001274)         40,00         214         (001187)           (001274)         40,00         214         (001187)           (001276)         40,00         214         (001187)           (001276)         40,00         214         (001187)  | 17-2100)   | 34.11 | 116  | 10011441  | 37.12 |
| (001252)         9-4.15         202         (001197)           (001253)         3-4.18         203         (001197)           (001264)         3-4.21         204         (001197)           (001264)         3-4.22         205         (0011197)           (001264)         3-4.23         205         (0011197)           (001264)         3-4.23         207         (0011197)           (001264)         3-4.24         207         (001197)           (001270)         40-0.1         210         (001197)           (001271)         40-0.1         210         (001197)           (001274)         40-0.2         212         (001197)           (001274)         40-0.2         212         (001197)           (001274)         40-0.2         212         (001197)           (001274)         40-0.2         212         (001187)           (001274)         40-0.2         212         (001187)           (001274)         215         (001187)   | 10012501   | 34.13 | 707  | (001101)  | 37.14 |
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| (wal25b]         39.21         204         (vol197)           (wal26c)         39.23         205         (vol197)           (col26c)         39.23         206         (vol197)           (col26c)         39.27         207         (vol197)           (col26c)         39.27         207         (vol197)           (col27c)         39.27         208         (vol197)           (col27c)         39.21         209         (vol197)           (col27c)         40.01         210         (vol197)           (col27c)         40.01         210         (vol197)           (col27c)         20.0         212         (vol197)           (col27c)         210         (vol197)           (wal27c)         20.0         214         (vol197)           (wal27c)         20.0         214         (vol197)           (wal27c)         20.0         214         (vol197)           (wal27c)         20.0         214         (vol197)   | 10012551   | 35.16 | 503  | (141100)  | 37.14 |
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| (001202)         39,25         206         (001197)           (001204)         39,27         207         (001197)           (001206)         39,23         208         (001197)           (001201)         39,23         209         (001197)           (00127)         40,01         210         (001197)           (00127)         40,02         212         (001197)           (00127)         40,02         212         (001197)           (00127)         40,02         214         (001197)           (00127)         40,02         214         (001197)           (00128)         40,03         214         (001197)           (00128)         40,01         215         (001197)   | (001200)   | 39.43 | 507  | (1611100) | 37.14 |
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| (001270)         40,41         210         (001197)           (041272)         40,43         .1         (001187)           (401274)         40,40         212         (001187)           (401276)         40,40         214         (001187)           (401276)         40,40         214         (001187)           (401276)         40,40         245         (1001187)  | (001208)   | 34.31 | 80   | 10011471  | 37.14 |
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| 11151001    | 43.64     | şo.              | 10012031  | 36.01 |
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| 102*1001            | **                                      | 2430                         | (001413)  | 44.15          |                      |
| 1001+25)            | 97.44                                   | *31                          | (001503)  | 38.01          |                      |
| (001423)            | 12.44                                   | 1431                         | (001422)  | ***20          |                      |
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| (92*100)            | 47.26                                   | 1432                         | (001427)  | 44.25          |                      |
| 10014301            | 44.26                                   | 2432                         | (001427)  | 44.25          |                      |
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| (164100)            | 45.20                                   | ī                            | (001503)  | 38.01          |                      |
| 1001+531            | 45,22                                   | 2**                          | (001503)  | 38.01          |                      |
| 10014551            | *5.24                                   | <b>**</b> 3                  | (001203)  | 38.01          |                      |
| 1001457)            | 45.26                                   | <b>\$</b>                    | 10012031  | 38.01          |                      |
| 145*1001            | 45.41                                   | ş                            | 10015031  | 36.01          |                      |
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| 10014651            | 46.03                                   | ;                            | (001503)  | 38.01          |                      |
| (14)1467)           | 40.04                                   | 450                          | 10012031  | 38.01          |                      |
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| 11241001                |      | 452        | (007100)  | 38.01 |
| 16741001                |      | <b>453</b> | 10012031  | 38.01 |
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16451003 (445100) 10015451 (945100) (001553) (001554) (001562) 10025001 (495100) 100157.1

46-17 404

(001540)

48.18 507

10011003 (0021303) 10012031

46.23 406

48.25 470

\*8.28 953 46.32 454

(001203)

48.10 444 46.17 506

10015301

19651001 14651001

10015353

10015341

1002170) (402100) 10012031

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[061597] 10091001 (001003) (00) 606) 100100F) (010100) 10616121 (410100) (001616)

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| *******     | (001190) | 36.10  |           |       |          |       |
|-------------|----------|--------|-----------|-------|----------|-------|
|             | 10011001 | 30.10  |           |       |          |       |
|             |          |        |           |       |          |       |
|             | *510     | 40.04  |           |       |          |       |
|             | 10011001 | 36.10  |           |       |          |       |
| 44.15       | 4270     | 44.12  |           |       |          |       |
| 160 11.00   | 10011001 | 36.10  |           |       |          |       |
| 49.23       | 4330     | 44.20  |           |       |          |       |
| +4.25 458   | 10011001 | 30.10  |           |       |          |       |
| 16.44       | 0464     | 44.28  |           |       |          |       |
| \$6.01 65%  | (001100) | 36.10  |           |       |          |       |
| \$0.03      | 0944     | \$0.05 |           |       |          |       |
| 50.04 40.05 | (001100) | 36.10  |           |       |          |       |
| \$0-15      | 4520     | 50.12  |           |       |          |       |
| 50.17 461   | 10011001 | 36.10  |           |       |          |       |
| 50.23       | 4580     | 90.20  |           |       |          |       |
| 50.25 462   | 10011001 | 36.10  |           |       |          |       |
| 50.26 463   | (001100) | 36.10  |           |       |          |       |
| 50,27 964   | (001100) | 36.10  |           |       |          |       |
| 50.25 405   | 10011001 | 36,10  |           |       |          |       |
| >0.24 466   | (001100) | 36.10  |           |       |          |       |
| 50.30 467   | 10011001 | 36.10  |           |       |          |       |
| 51.01 468   | 1001160) | 36.10  |           |       |          |       |
| \$1.02 965  | (001100) | 36.10  |           |       |          |       |
| 51.63 470   | 10011801 | 36.10  |           |       |          |       |
| 0241 50-15  |          |        |           |       |          |       |
| 51.05       | 16291903 | 97.16  |           |       |          |       |
| 11.10 471   | (001190) | 36.10  |           |       |          |       |
| 11.12 1971  |          |        |           |       |          |       |
| 51.12       | (601635) | 51.13  |           |       |          |       |
| 51.17 472   | (001100) | 30.10  | (601305)  | 41.03 | 1001314) | 41.15 |
| 51.19 1972  |          |        |           |       |          |       |
| 51.15       | (0010+2) | 91.20  |           |       |          |       |
| 52.01 475   | (001100) | 30.10  | (1061301) | +1.0+ | 10013201 | 41.16 |

|                                  |   |        |                |                |                |                |                |                |            |            |             | 11111007   |                | (001473)   | 1601 100                         |
|----------------------------------|---|--------|----------------|----------------|----------------|----------------|----------------|----------------|------------|------------|-------------|------------|----------------|------------|----------------------------------|
|                                  |   |        |                |                |                |                |                |                |            |            |             | :          | 34.66          | ;          | 52.16                            |
|                                  | P AGE / BUX )                                 |        |                |                |                |                |                |                |            |            |             |            | 7745 (492100)  |            | (0016691<br>(001701)             |
| 1                                | MO. AND                                       |        |                | 40-27          |                |                |                |                |            |            |             |            | 34.25          |            | 52.11<br>52.16                   |
| AUTG-LLW LMAKT SET - FWL/SEE     | REFERENCES (SCUKCE SECUENCE NO. AND PAGE/BOX) |        |                | 10012461 40.27 |                |                |                |                |            |            |             |            | 1001202) 34.25 |            | \$113 \$2.11<br>(w16d4) \$2.16   |
| FLUM LMA                         | s (scuk                                       |        |                | 40.25          | 41.13          | 44.03          |                | 43.03          | 3540 47.04 |            |             |            | 34.23          |            | \$2.10<br>\$2.15                 |
| P LOV                            | REFLAENCE                                     |        |                | 10012441 40.25 | 10014151 44-13 | Zeco           |                | (001371) 45-61 | 3540       |            |             |            | 10012601 34-23 |            | (001660) 52-10<br>(001660) 52-15 |
| E KENCES                         |   |        | \$2.04         | 46.23          | 44.11          | 10.44          | ***            | 42.32          | 2700 43,14 | 1430 38.23 | 82.54 0065  | 47.06      | 39.21          | 47.11      | 47.08<br>52.14                   |
| JADLE LF CENTENTS AND REFERENCES |   |        | 10010513 52.04 | 10012421 46.23 | 1601-131 ++-11 | 10174033 44.61 | (001-11) +4-00 | (001304) +2.32 | 2700       | 14.30      | 7700        | 11051501   | (w1258)        | (401505)   | 1001047)                         |
| )) 47 37a                        | NA N  | 1473   |                | 1010           | 1650           | 0~1            | 1040           | tesa           | 1000       | 1970       | 3000        | 1120       | 1130           | 1162       | 2020                             |
| 41                               | rate/tok                                      | 5 1473 | 57.00          | best loto      | 52.11 le20     | 52.1. 10.0     | 52.13 1040     | 514 1050       | 54-15 1000 | 0401 01.26 | \$2.17 1000 | 52.16 1120 | 52.1v 1130     | 52.26 110c | 0202 12*74                       |
| 44/11/35                         | CAN IL  | (Mics) | 1 teatural     | 1,444,001      | 1114           | 1-14           | 1001001        | 10010741       | [ofelw]    | (W100/1    | feetenal    | (24013)    | 10010001       | (601701)   | 1217121                          |

CHAKT TITLE - NUN-PHICEDURAL STATEMENTS

52.13 52.20

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CHART TITLE - SUBNOUTINE FILTIX, Y)

| (001731)  | >6.01 FILE         | FILT | (196190)       | (001381) 43.11-X | (001383) 43.13-X | 43.13-X |  |
|-----------|--------------------|------|----------------|------------------|------------------|---------|--|
| 1667 1001 | \$0.04             |      | 10017341 56.02 | 26.05            |                  |         |  |
| 10571001  | \$0.05             |      | (001754) 56-15 | \$1.98           |                  |         |  |
| (467,100) | 56.07              |      | 1001742) 56.08 | \$6.08           |                  |         |  |
| 10-1742)  | 36.08              | 932  |                |                  |                  |         |  |
| 10017433  | 56.04 150          | 150  | 10017301 56.05 | \$9.05           |                  |         |  |
| 10017451  | \$6.11             |      | 10017501 56.13 | 56.13            |                  |         |  |
| 10671001  | 56.13 250          | 250  |                |                  |                  |         |  |
| (1417)    | 300                | 300  | 10017431       | \$6.09           |                  |         |  |
| 1754.     | 301 1541 56.1' 105 | 106  |                |                  |                  |         |  |

CHANT TITLE - NUM-PRUCEDURAL STATEMENTS

CMART TITLE - SUBRUUTINE MEITREIX, Y. \*!

| 1961 1001   | \$6.03               | Se.ol weifft | 10012971 40.23-X | 40.23-X |                  |        |
|-------------|----------------------|--------------|------------------|---------|------------------|--------|
| 100,7731    | 54.00                | Seaus WellCP | 10012441 40.25-X | 40.25-X | 10622201 17.07-X | 10.11  |
| •           | 3. 5.                | SE.U. WEITHP | 1957[00]         | *0.27-R | (002222) 77.04-X | 17.04  |
| 1217131     | 36.06                | ^            | 10011777 58.01   | 10.84   | 10017751 58.03   | \$8.03 |
| 17651       | 1001 78-31 58-37 400 | 3            | (001763) 58.10   | 58.10   |                  |        |
| (6/2100)    | 30.1. 300            | 35.0         | 10017623 58.08   | \$6.08  |                  |        |
| 14637411    | 34.11 614            | 213          | (wil87) 58.16    | 58.16   |                  |        |
| 1647 (00)   | 36.14 556            | 364          | 10017403 58-17   | 58.17   |                  |        |
| 1 ( V 1 W 1 | 58.21                |              | 10018211 59-20   | 94.20   |                  |        |
| 10019001    | >0.46                |              | 10016071 59.10   | 59.10   |                  |        |
|             |                      | •            | 10041041         | ****    | 10014041 59-11   | 34.1   |

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CHANT TITLE - MEN-PROCEDURAL STATEMENTS

CMANT TITLE - SUBMUUTINE MEJTREEXPOS

| (457 (40)   | 56.01    | Se. 01 melific | (001292) 40,23-X | 40.23-X |                   |         |          |       |
|-------------|----------|----------------|------------------|---------|-------------------|---------|----------|-------|
| 1622 700)   | 34.02    | SELUZ METROP   | (1001294)        | 40.25-X | K-0022201 77.07-X | X-10.77 |          |       |
| 3           | 36.04    | Wt 17MP        | 19621001         | 40.27-X | (002222)          | 17.09-X |          |       |
| 1871 1381   | \$8.06   | ^              | (5417100)        | 10.84   | 16471001          | 58.03   |          |       |
| ( 461 Ta5 ) | 58.17    | 904            | 10017631         | 98.10   |                   |         |          |       |
| 10018231    | 56.1.    | 936            | 12311001         | \$6.08  |                   |         |          |       |
| (1413)      | 3K.14    | 999            | (1871)           | 58.16   |                   |         |          |       |
| 16017031    | 54.15    | 950            | 10017501         | 58.17   |                   |         |          |       |
| 1647 1001   | 58.21    |                | 1001821)         | 59.20   |                   |         |          |       |
| (001808)    | 24.02    |                | (001607)         | 59.16   |                   |         |          |       |
| 10017951    | \$4.03   | 750            | 10011001         | 50.04   | 10016091          | 59.11   |          |       |
| (41803)     | 24.06    | 750            | 1242 1991        | 58.21   |                   |         |          |       |
| (00100)     | 10.96    | 270            |                  |         |                   |         |          |       |
| 1408100)    | 34.11    | 080            | 10025057         | \$0.04  |                   |         |          |       |
| 1218121     | \$4.15   | 275            | (001608)         | 59.05   | (001803)          | 90.45   | (001805) | 80.46 |
| (001017)    | 54.15    |                | 1001911)         | 59.13   |                   |         |          |       |
| [101814]    | 54-40    | 265            | (001813)         | 59.16   |                   |         |          |       |
| 10281001    | \$4.15   | 942            | (661817)         | 59.17   |                   |         |          |       |
| 10016211    | 34.26 2W | 200            |                  |         |                   |         |          |       |

CMART TITLE - NON-PHUCEUURAL STATEMENTS

Chaki IIILE - Subkuviine Commeniiskofisposi

CHANT 111LL - SUBKUUTINE CFARIVIN. VUUT)

CHANT TATLE - MEN-PROCEDURAL STATEMENTS

| 1/90 | <2/11/70   | ¥.          | 4      | NTS AND RE       | FERENCES | ₹.               | AUTOFLOW CHART SET - FWQ/SCL                  | 1 SET - FW        | 125/0    |                   |         |
|------|------------|-------------|--------|------------------|----------|------------------|---|-------------------|----------|-------------------|---------|
| 47   | CAND IL    | FALE/BUX    | X NAME |                  |          | REFERENCE        | REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX) | SEQUENCE          | MO. AND  | PAGE/80X1         |         |
| 3    | (10) 6363  | el.ul CON   | CCMV   | (061258) 39.21-X | 39.21-X  | (001333) 41.29-X |   | (003814) lel.16-X | 101-16-X | (004986) 210.11-X | -11.012 |
| 30   | (001838)   | 20-19       | CUNNAP | 1001290)         | 39.23-X  |                  |   |                   |          |                   |         |
| 3    | 1001001    | 01.04 b1VA  | LIVA   | 10012021         | 39.25-X  |                  |   |                   |          |                   |         |
| 3    | [001844]   | ol.to Attua | ALLOA  | 10012441 34.27-X | 34.27-X  | (001335) 42.01-X | 42.01-X                                       |                   |          |                   |         |
| 3    | (w) brb)   | D1.66 1000  | Toron  | (001837)         | 61.01    | (001840) 61.03   | 61.03   | 10016431 61.05    | \$0.14   |                   |         |
| 3    | 12497771   | 41.15       | 37,    | (0018*8) 61.10   | 01.10    |                  |   |                   |          |                   |         |
| 3    | (5,187.5)  | 21.10       | 202    |                  |          |                  |   |                   |          |                   |         |
| 3    | luctor!    | 40.,3       |        | 10016561 62.01   | 62.01    |                  |   |                   |          |                   |         |
| 100  | 10011001   | 62.63       |        | (468100)         | 62.03    |                  |   |                   |          |                   |         |
| 3    | (ust to:1  | , , , , ,   | 702    |                  |          |                  |   |                   |          |                   |         |
| 1001 | trette (1) | 31.50       | 301    | 1001804) 62.08   | 62.08    |                  |   |                   |          |                   |         |
| 1111 | INTERI     | •           |        | (601843)         | 62.22    |                  |   |                   |          |                   |         |
| 3    | (Michel)   | 101 101     | 101    | (018100)         | 62.12    |                  |   |                   |          |                   |         |
| 123  | 11.187.1   | 301 41.20   | 301    | 10018701         | 62.12    |                  |   |                   |          |                   |         |
| 33   | (Coalou)   | 64.17 103   | 103    | (UDIRTU)         | 62.12    |                  |   |                   |          |                   |         |
| 1001 | (telete)   | ei.ly lus   | 104    | (01870)          | 62.12    |                  |   |                   |          |                   |         |
| 1:3  | (1421-1)   | 4 7 . 70    | \$     | 10018761 62.14   | 62.14    | 10018811 62.16   | 62.16   | (001886)          | 62.18    |                   |         |
| 1.33 | (celes)    | 07 7.000    | 07     |                  |          |                  |   |                   |          |                   |         |

CPART filts - NUN-PROCEDURAL STATEMENTS

CHANT TITLE - SUBRUUTINE SMIFTIX, Y.A. 6)

|                  |                  | (064616) 204.07-X   |                     | 10.50 (755100) |                  |                  |                |                   |          |     |                  |                   |           |            |                  |                         |
|------------------|------------------|---------------------|---------------------|----------------|------------------|------------------|----------------|-------------------|----------|-----|------------------|-------------------|-----------|------------|------------------|-------------------------|
| x-1€-0+          | 41-11-X          | 41.05-X             | 41.17-X             | \$4.05         |                  |                  |                |                   |          |     | 44.07            |                   |           |            |                  |                         |
| 1001300} +0.31-x | f001314) 41.11-X | 10013081 41.05-X    | (1001321)           | (001920) 64.05 |                  |                  |                |                   |          |     | 1001924) 64.07   |                   |           |            |                  |                         |
| (001298) 40.29-X | (101312) 41.09-X | K-10-17 +1-01-X     | *-£1-13             | 10.40 (114100) | 80.20 18841001   | \$0.40           | 10614411 04-13 | 64.16             | 04.21    | ı   | 10019151 64.03   | 94.16             | 90.50     |            | (001464) 64.21   | (001982) 65.07          |
| 298)             | 121              | 62.0                | •                   | 2              | 2                | =                | -              | _                 | =        |     | -                | -                 | =         |            | 3                | 821                     |
| 1001             | [no13            | (0013               | (001310)            | 141001         | 1001498          | tuc19271 64.09   | 1061441        | (1001953)         | (001568) |     | 1001919          | (654100)          | 100161001 |            | 1001             | 61001                   |
|                  | KSH1F1           |                     | h SMF TS            |                |                  |                  |                |                   | 1001468  | 306 |                  |                   | 100146    | 200        |                  |                         |
| 04.41 SHIFT (001 |                  | 64.04 SHIFTS (0013) | 04.00 KSMFTS (00131 | 141001         | 994100) 51 71+40 | 124100) 02 41.40 | 1441901 47 919 | 64.17 30 (06.1953 | 41.00)   | 300 | (141nn) L2 10-62 | £\$41001 0× *3*57 | 1001400   | 00.4 co.40 | 94[00] 000 (0140 | (1901) AND ANTO (ARATM) |

|                 |                |                | :        | 1001924) 64.01 |                |          |          |                |                |
|-----------------|----------------|----------------|----------|----------------|----------------|----------|----------|----------------|----------------|
| 51:13           | 64.16          | 04.21          | 1        | 64.03          | 64.16          | 90.54    | i        | 64.21          | 65.07          |
| (061441) 64-13  | (001653) 64-16 | (001468) 64.21 |          | 10014151 04.03 | 10014531 64-16 | (094100) |          | 10014641 64-21 | 1001562) 65-07 |
| \$7             | ),             |                | 30.5     | 17             | ;              |          | 3        | 3              | 3              |
| 61.10           | ué 71.43       | ,1:            | Juc 1    | 65.44 27       | .5.60          | 50.00    | ov       | 36 10.60       | 40.03          |
| 62 91-19 1544WI | 14414341       | 1001001        | [004[00] | [ccv.w]        | [1007401]      | 17,131   | 1004450) | 10,176.1       | (101141)       |

CHANT TITLE - NEW-PRUCEDUNAL STATEMENTS

CHANT LITEL - SUUKDUIINE CERRIVINIVUUT)

| .23-x (001487) 46.24-4 | \$0°.          |          | 7.16           | 7.08           | 7.10           | 7.13           |                      |
|------------------------|----------------|----------|----------------|----------------|----------------|----------------|----------------------|
| (uu1485) 46.23-X       | 1002013) 67.05 |          | 10020211 67-16 | 10020161 67.08 | 1002017) 67.10 | 10620191 67.13 |                      |
| Cr An                  |                | 300      |                |                |                |                | 3                    |
| of.el CrAn             | .1.60          | 01.05    | 30.60          | 01.10          | 67.12          | 47.15          | 01.10                |
| (100,000)              | 1212203        | (Missis) | (010700)       | 11.10          | (513773)       | 1020201        | 1002.0211 67.10 2001 |

CMANT TITLE - NON-PRUCEDURAL STATEMENTS

LHAKT TITLE - SUBRGUTINE LAMPLPTAIM.VIM.XTWT.YOUT)

(001483) 46.21-X

1002032) 69.01 LAMPCP

| UB/11/75 FAGIL<br>CAKU ID FAGI/BUX | FAGE/BLI  | FAOLE UF CONTENTS AND REFERENCES LX NAME | IS AND KEI     | + t K t MC E S   | AUTGELM CMART SLT - FWU/SLL<br>FRFFRINCES (SCUKEL SECURKE NO. AND PACE/BUXT) |
|------------------------------------|-----------|--|----------------|------------------|--|
| COUZOS-3 OT-CZ LAMPAE              | 70.40     | LAMPRE                                   | (001434)       | 1001474) 46.17-K | (1061461) 40.14-3  |
| (W2030) 04.04 100                  | 10.30     | 331                                      | 10050333 65.01 | 10.49            |  |
| 10,20363 64.00                     | 04.00     |  | 10020341 64.07 | 67.07            |  |
| (460200)                           | 04.07 200 | 200                                      |                |                  |  |
| (2407m)                            | 04.10     |  | 10020431 64-11 | 11.70            |  |
| (002043)                           | 300       | 300                                      |                |                  |  |
| 10020471 04-13 500                 | 64-13     | 200                                      | 100,040) 64,08 | 90**9            |  |

## CHAKT TITLE - NUN-PRUCEDUKAL STATEMENTS

#### CMART TITLE - SUBROUTINE ERGYLPIX,Y)

| 100700)   | 11.01     | 71.01 ENGYLP | K-11-6E 17+21003 | 39.11-X |                  |         |  |
|-----------|-----------|--------------|------------------|---------|------------------|---------|--|
| 1002001   | 11.02     | 71.02 ERGYRE | 10012431 39.07-X | 39.07-x | (001245) 34.04-X | 34.04-X |  |
| 1002021   | 71.04 100 | 25.1         | 10020563 71.01   | 10.17   |                  |         |  |
| (00700)   | 11.00     |              | 1002004) 71.07   | 10.17   |                  |         |  |
| 1002001   | 71.07 200 | 300          |                  |         |                  |         |  |
| (1002001) | 71.10     |              | 10020663 71.11   | 11.17   |                  |         |  |
| 1002001   | 300       | 300          |                  |         |                  |         |  |
| (00200)   | 71.12 500 | 900          | 10020651 71.08   | 11.08   |                  |         |  |
|           |           |              |                  |         |                  |         |  |

## CHART TITLE - NCN-PROCEDUKAL STATEMENTS

#### CMART TITLE - SUBKGUTINE FGENXY(X,Y)

|             | ;         | 1            |                  |              |                |               |                |       |
|-------------|-----------|--------------|------------------|--------------|----------------|---------------|----------------|-------|
| 1002001     | 13:01     | 13.01 FULNAT | X-10:44 (504100) | ¥-10-4       |                |               |                |       |
| (002103)    | 73.04     |              | (002105)         | 73.02        |                |               |                |       |
| (002101)    | 13.00     |              | (002708)         | 13.01        |                |               |                |       |
| ( 007 709 ) | 13.67     | 306          |                  |              |                |               |                |       |
| 10020431    | 43.65     | 75.Cb FUINH  | 25.60            | 2560 44.03-X | 1110           | 1110 202.26-X |                |       |
| 10020951    | 73.10 100 | 1 00         | 10020923 73.01   | 13.01        |                |               |                |       |
| (669700)    | 73.13 116 | 110          | 1002046) 73-11   | 73.11        |                |               |                |       |
| (007100)    | 13.15     |              | (00200)          | 73.13        |                |               |                |       |
| 10021101    | 73.17 200 | 200          | 10021011 73.16   | 73.16        |                |               |                |       |
| 10021131    | 13.61     |              | 10021121 73.19   | 73.19        |                |               |                |       |
| (1002117)   | 74.61     | 300          | (1007111)        | 73.18        |                |               |                |       |
| 10021201    | 74.05     |              | 10021191         | 74.03        |                |               |                |       |
| (06,2121)   | 14.00     | • 00         | (002116) 73.21   | 13.21        |                |               |                |       |
| (0621251    | 14.08     | 919          | 10023001         | 73.67        |                |               |                |       |
| (161200)    | 74.12     |              | (00/133)         | 74.13        |                |               |                |       |
| (1002133)   | 74.13     | 9,20         |                  |              |                |               |                |       |
| (002134)    | 74.14     | 651          | 10021261 74.09   | 14.09        |                |               |                |       |
| 10021361    | 14.11     |              | 10021351 74.15   | 74.15        |                |               |                |       |
| 10021451    | 75.03     |              | (441200)         | 15.01        |                |               |                |       |
| (0051200)   | 15.04 700 | 700          | 10021401 75-11   | 15.11        | 10021641 75.12 | 75.12         |                |       |
| (102152)    | 75.03 800 | 3            | (002190) 76.06   | 76.06        | 1002150) 76.20 | 76.20         | 1002147) 77.03 | 17.01 |
| i<br>i      |           |              | 4.44             |              |                |               |                |       |

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CHART IIILE - NUN-PRULEUURAL STATEMENTS

77.11 1200

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CHANT THEE - SUCKEUTING PHULCOXIVE

1.015071 47.13-X 10015041 47.15-X 80.61 80.05 10022511 80.14 10.97 (662590) 1002441 E0.00 10022441 80.11 74.03 (10224t) 80.09 (UUZZ35) 74.05 10022521 80.10 10022001 (047700) 10022341 75.01 PPULL 20.05 240 75.00 It. 2.5 £1. • (1.) 10.03 11.00 61.03 £0.10 40.45 ..... 14.00 (cezzan) 17051-07 [ cm; 244 ] 10022201 15022231 (00,240) (m. 242) 100.6343 1652,00) 100227001 10022411 10022301

CHAKT TITLE - NUN-PRUCEUUKAL STATEMENTS

CHAKT TITEL - SUPROUTINE ABORTINCOURT

(uuclus) 73.03-x (60211.) 73.2u-x (uucl35) 74.16-x (902224) 77.11-x function) cook extract [UU2250] CZ-U1 ABUK]

CHAFT TILL - NOT-PELLEUUKAL STATEMENTS

CHART TITLE - COBNOUTINE PILISTON

10023471 88.28 [001347] 42.12-X [001344] 42.14-X [001351] 42.16-X [001353] 42.18-X (UUZ316) 66.11 (UUZ383) 88.21 10023041 86.06 10022461 65.12 (002276) 84.02 10052861 85.01 (0035411 85.05) (00/245) 85.10 (UUZ3US) 86.03 10023001 65.10 10,230 15,17 (0075851 84.00) (0,02275) 84.01 10022741 85.08 E4.03 P11.151 10024111 65.16 1100 34.05 000 10.01 54.00 12.03 Tu 20 45 21.63 (1.49 (447/00) 40.43 05.16 E. . C. 10077001 19127001 1222771 1+1+200) (11/2003) [442,700] (997770) (1477341) (062245)

| 1001344) 42.14-X (UCL332) 42.10-K (OO1353) 42.16-K |                |           |          |                |           |                |                |                | 1 (002363) 88.21 (002397) 88.28 |                |                |           |                |                |           |                |                |          |          |           |           |                |                |
|--|----------------|-----------|----------|----------------|-----------|----------------|----------------|----------------|---------------------------------|----------------|----------------|-----------|----------------|----------------|-----------|----------------|----------------|----------|----------|-----------|-----------|----------------|----------------|
| 42.1   |                |           |          |                |           |                |                |                | 66.1                            |                |                |           |                |                |           |                |                |          |          |           |           |                |                |
| (001351)   |                |           |          |                |           |                |                |                | (00/3161 66.11                  |                |                |           |                |                |           |                |                |          |          |           |           |                |                |
| 42.14-X  |                |           |          |                |           |                |                |                | 86.06                           |                |                |           |                |                |           |                |                |          |          |           |           |                |                |
| 14013441   |                |           |          |                |           |                |                |                | 10023041 86.06                  |                |                |           |                |                |           |                |                |          |          |           |           |                |                |
|  | 84.02          | 90.48     | 84.01    | 10.48          | \$0.68    | 85.08          | 95.10          | 86.03          | 55.12                           | 65.10          | 85.17          |           | 85.13          | 84.04          |           | 96.10          | £6.19          | 66.21    | 66.23    | 86.26     | 86.27     | 87.04          | 87.06          |
| (UU1547) 42.12-X                                   | (002276) 84.02 | (1002282) | 10022751 | 10052861 85.01 | (162291)  | 10022441 85.08 | (00/245) 85.10 | 10023051 86.03 | 10022461 65.12                  | 10023001 65.18 | (tuc3u2) 85.17 |           | (602277) 85.13 | 10023131 86.09 |           | (402314) 66.10 | (002329) 86.19 | 10053301 | 11665001 | (002335)  | (1002337) | 10023411 87.04 | 10023421 87.06 |
| secol PILIST                                       |                | 2         | 920      | 2              |           |                |                |                | 9011                            | 7              | ÷              | ç         | <b>3</b>       |                | 100       | 1007           |                |          |          | 751       | 160       |                |                |
| 44.01  | 5              | 10.00     | 5        | 60.63          | 45.06     | 91.69          |                | \$1.15         | 65.16 1100                      | 40.03          | 70.03          | \$0.34    | \$0.05         | 10.01          | t6.05 100 | E0.14 4001     | 44.41          | 86.23    | 66.23    | 07.01 15v | 87.62 160 | 47.06          | 30.53          |
| 14127001   | (14.52.41)     | 14622701  | (m241+)  | 19977701       | (00.2292) | (442790)       | 10022001       | (447/00)       | [[[47m]                         | 11023031       | 10~230~1       | (405.500) | to.cs.us       | (115700)       | 16623133  | (5,2317)       | (05650)        | (186770) | 10023321 | (%5338)   | 1465541   | 1.245.2001     | (100,343)      |

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| 1602 300)   | 87.10    |            | 10023431                         | 87.04  |            |          |                              |   |
| (46300)     | 87.12    |            | (002344)                         | 01.10  |            |          |                              |   |
| (w2340)     | 47.14    |            | 10023451                         | 87.12  |            |          |                              |   |
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| 10023201    | 11.13    | 306        | (002348)                         | 87.15  |            |          |                              |   |
| (+66.5W)    | 07.64    | 346        | (002353)                         | 91.19  |            |          |                              |   |
| (466709)    | 17.75    | 10+        | (002353)                         | 87.19  |            |          |                              |   |
| 1002 304)   | 67.22    | *04        | (002353)                         | 87.19  |            |          |                              |   |
| (405.200)   | 44.01    | 705        | (002328)                         | 81.08  |            |          |                              |   |
| (uu/372)    | 10.81    |            | 1602371)                         | 88.02  |            |          |                              |   |
| 1002 3743   | 18.07    |            | (605373)                         | 88.05  |            |          |                              |   |
| (1, 12370)  | 11-20    |            | (002375)                         | 80.88  |            |          |                              |   |
| 110023711   | 21-99    |            | 1002376)                         | 88.10  |            |          |                              |   |
| 111.23/8)   | ct.l.    |            | (1002,377)                       | 88.12  |            |          |                              |   |
| 1.72, 374)  | 26.35    |            | 10023783                         | 88.14  |            |          |                              |   |
| [164,364]   | 41.11    |            | 10023811                         | 88.17  |            |          |                              |   |
| (102:38.3)  | 17.90    | 5          | (002358)                         | 87.20  | (002363) 8 | 67,21    | (1002368)                    | 87-22   |
| (445.50.5)  | 64.23    |            | 10023821                         | 88.19  |            |          |                              |   |
| (CAC JOO)   | 67.00    | 196        |                                  |        |            |          |                              |   |
| [462344]    | 17 - RC  |            | (005701)                         | 89.04  |            |          |                              |   |
| (10,200)    | 66.33    |            | (007200)                         | 88.31  |            |          |                              |   |
| 10057001    | 35.35    |            | 1005401                          | 86.33  |            |          |                              |   |
| 10057001    | 34.01    | 3,0        | (005405)                         | 88.35  |            |          |                              |   |
| 100-407     | *7.*2    | 3          | 10054031                         | 86.36  |            |          |                              |   |
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| (002402) 88.35-X    |                |                |                |                |                |                |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| (002397) 88.28-X (0 | ₹0°16          | 91.05          | 91.08          | 91.10          | \$1.14         | 11.10          |
| (002397)            | 10024201 61-05 | 10024271 91.05 | 10024281 91.08 | (002+24) 91.10 | 1002434) 91-14 | [UU2437] 91.17 |
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| 10.14               | *1.04          | 10.14          | 41-10          | 41.12          | 41.10          | *1.14          |
| (UUZWZ3) 91.61 PACK | (1,002,007)    | (10/4/01)      | (42424)        | 10645001       | [45+31-1]      | (107478)       |

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(002408) 89.05 10024011 64-07

CHANT TITLE - NUN-PROCEDURAL STATEMENTS

CHART FIFLE - SUBROUTINE PACK (IDAT - IMD - IBIT - IARY - \*)

(002397) 88.28-X (002402) 88.35-X 10024261 91.02 1002\*27) 91.05 10024781 41.08 (002424) 91.10 1002434) 91.14 10024373 91.17 VI.61 PALK 40.44 10.47 \$1.10 ۲۱۰۱۶ 41.10 \*1.14 (674.799) (52,500) (474701) (424700) 106,2001 [65.4.51.1] [455700]

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| 10012121                          | 100,201 1105,001 | 1,0020431 105.19 | 10026351 105-13 | 10020301 105-11   |                     | (002638) 105,15  |                     | 10026463 105.21 | 19871901             | (002003) 105.31 |                    |
| A fclo                            | 3.7              |                  |                 | 3,0               | ır                  |                  | 3                   |                 | v10A                 |                 | 2                  |
| 10.5.1                            | 11.5.00          | 11.50.           | 105.15          | ics.to            | 11-601              | 162.16           | 165.15              | 105.63          | 143.65               | 165.36          | 105.31             |
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| .10.0.    | 110.00   | 116.00          | .10.00          | 110.07     | 113.10          | 114.05   | 114.00          | 114.05        | 110.01          | 117.11          | 61.411    | 111.10 200      |
| (cas sea) | (cocpan) | 1149,000        | (0,42,404)      | (1004, 01) | 1 101 101       | 10042001 | 1,007,00.1      | (10,411)      | (ATA) 1)        | [ 0.24 April    | {+C4,404} | 100, 4433       |

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| LUCCEPT 121-01 CLUSTR | 100,550.1       | 100,004 | (144,440)       | 1266,702)       | (contact) | 110.3607        | two-wast letterl | 114,3000 121,22 60 |

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| Iciot centre     |                 | 3        |                 |                 | 977      |                  |                 | 3        |                 |                 |                 | 730             | 725             | 750             | 760             | 07.7            | 780             | 3.40            | 900             | 932         |
| 141.4            | 1,1,6,6         | 40.434   | 1.1.13          | 121113          | 1/1.16   | 161.30           | 1.1.1           | 121.22   | 122.01          | 124.45          | 175.65          | 122.67          | 122.05          | 122.13          | 122.15          | 175.18          | 122.20          | 122,23          | 123.03          | 123.05      |
| 1224700)         | 100,592.3       | 10024443 | (openion)       | (105,441)       | tousours | 12005001         | 100,003         | (46,500) | (or ont of      | toutote         | (A)nenn)        | (120500)        | 16030221        | 10030253        | (T206W)         | 10505001        | 1003034)        | 10030+1         | (Ecurus)        | ( UN 5055 I |

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250 132.06

Grant filts - Puncilon IPACK(ISTR, IDATA, IMORD)

Crant litte - FUNCTION 18GGL(X)

CHAK! IIILE - NUN-PRUCEUURAL STATEMENTS

CHANT IITLE - FUNCTION RRANDINITYES

| TRAVOL      | JEPRNYOV 1361 10  | 10  | 10031661 132,14                        | 4 UC7RNYS4 133.1 |
|-------------|-------------------|-----|--|------------------|
| 250         | 132.00            |     | 10031501 132.03                        |                  |
| L TRNY 15   | 132.07            | 200 | 250 132.06                             | •                |
| .NY10       | JETRNYTO 134.0%   | 900 | 250 132.04                             |                  |
| 370         | 340 134111 446    | 904 | 250 132.06                             | •                |
| 11916       | Wastell tackle    | 00+ | 25u 132.06                             |                  |
| 11010       | lession tacité 20 | 97  | (00s164) 132.13                        | •                |
| 72          | 41.251 US+        | ç,  | ************************************** |                  |
| 1. NY 4.    | ULPANYS 155.01    | 900 | 250 132.06                             |                  |
| ×NY4.5      | JERNYS 155-05     | 900 | 250 132.06                             |                  |
| JC7KNY&7    | 135,05 700        | 705 | 250 132.06                             |                  |
| OC PRINTS G | 155.07            | 500 | 250 132,06                             | •                |
| JL7KNY52    | 133.09            | 108 | UC 7RNYSU 133.07                       | _                |

CMANT TIFLE - NUN-PRECEDURAL STATEMENTS

CHAKT TIFLE - SUBRUUTINE DBLKKINST.NEURD.K.T.

| X-X-12-X                                | X- e                   |                    |                    |                    |
|---|------------------------|--------------------|--------------------|--------------------|
| 2163.                                   | 3                      |                    |                    |                    |
| (W3862) 163.22-X<br>(005071) 214.13-X   | (001344) 42,00-X       |                    |                    |                    |
| 39.05-X                                 | 38.66-X                |                    |                    |                    |
| 10012401                                | 1250                   |                    |                    |                    |
| (001239) 39,64-X<br>(166-697) 240,-12-X | 38.05-X                |                    |                    |                    |
| (001239)                                | 12.0                   |                    |                    |                    |
| 39.62-X<br>173.16-X                     | 9.13-K                 |                    |                    |                    |
| (001230) 39.02-x<br>R 173.16-x          | (000430)               |                    |                    |                    |
| 0012351 39.01-X<br>R 173.14-X           | 9.08-X                 | 135.61             | 135.08             |                    |
| (001235)<br>R                           | (000424)               | UC708164 135.61    | UC7UBL12 135.08    |                    |
|   |                        |                    |                    |                    |
| Ublk X                                  | SUBLEX                 | 72                 |                    | 01                 |
| 125.01                                  | 135.02                 | 135.04             | 135,07             | 135.08             |
| ULIDELUS 135.01 DELKA                   | UCPUBLUS 135+U2 SUBLKX | UC7DBL67 135.U4 2U | P. UL706110 135,07 | Sucret12 135.08 10 |

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LMANT TITLE - BILLER DATA

LIMP : ISTLE - NON-PROCEDURAL STATEMENTS

Urar Fillic - SURRUCTINE 2FFILARY)

|                  |                  |                    | (00.5316) 142.05 (003336) 143.16 (003364) 145.22 |            |                 |                  |                 |                  |           |                 |                 |            |                 |           |                 |           |                 |                 |            |                 |                 |                 |                 |           |                 |                 |                 |                 |            |                  |  |                 |                 |            |                 |
|------------------|------------------|--------------------|--|------------|-----------------|------------------|-----------------|------------------|-----------|-----------------|-----------------|------------|-----------------|-----------|-----------------|-----------|-----------------|-----------------|------------|-----------------|-----------------|-----------------|-----------------|-----------|-----------------|-----------------|-----------------|-----------------|------------|------------------|--|-----------------|-----------------|------------|-----------------|
| (001253) 39.16-X | (UU1258) 39,19-X | UC 7ANT62 192.17-X | (6u3271) 140.01 (063274) 140.03 (0053            | 260 141.05 | (0u32dm) 141.07 | (06.3285) 141.69 | (065.86) 141.11 | 100,52411 141-16 |           | (003267) 141.13 | (063296) 141.19 |            | (003242) 141.10 |           | (0u3303) 141.25 |           | 100,2741 141.21 | (003295) 141-21 | 280 141.05 | 10033261 143.10 | (003327) 143.01 | (003311) 142.02 | (003328) 143.03 | 143.69    | (0u3329) 143.12 | (003333) 143.15 | (105332) 143.14 | (603344) 144.07 |            | (1003353) 144.10 |  | 10033431 144.64 | (603354) 144.15 |            | (003361) 143.19 |
| 1947 - Antion    | 140.02 41661     | 1+1.0.1+1          | 1×1×0 ×  | 141.00 302 | ******          | 144.11           | 61.44.1         | 1-1-12           | 141.16 11 | 141.17 766      | 241.12          | 1-1-17 702 | 141,20 701      | 1+1,22 30 | 1~1~1           | 1+1.25 10 | 14.20 34        | 1+1+25 51       | 146-01-541 | 143.01          | 14.00           | 143.00 359      | 145,06 54       | 143.17 00 | ******          | 1*** 01 360     | UFc +U. **1     | 30.441          | 144.07 400 | 144.04           | 104 )7***1   | 46.11.434       | -1              | 144-15 402 | 100 of 107      |
| form 703         | 1003.7.1         | ( no r tip)        | (177,500)  | ( tropers) | ((0,70,1)       | (myster)         | twast D         | 16026001         | 1162603   | 16424111        | (467764)        | (0,750)    | 1742-W1         | (wyżew)   | 110052001       | (cuccus)  | 10.3367)        | l washul        | 10033103   | 10033271        | (400000)        | 100,33171       | (,266,00)       | 14.4324)  | 1003361)        | 1100001         | (UL)243)        | [445.00]        | 1446 600)  | 1165600)         | ( { { { { {c, {a, b, | (+cccon)        | (1/08800)       | 14086001)  | (4.3365)        |

|            |                 |                 |                 |                 |                 |                 |                |                 |                 |             |                 |           |                 |                 |            |                 |                 |            |                 |           | 1003360) 144.15 |                 |           |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-------------|-----------------|-----------|-----------------|-----------------|------------|-----------------|-----------------|------------|-----------------|-----------|-----------------|-----------------|-----------|-----------------|-----------------|-----------------|
| ca-1+1 042 | 10033261 143.10 | 10033271 143.01 | (003311) 142.02 | 10033261 143.03 | 10033251 143.09 | 10033291 143.12 | 1003334 143-15 | 10033321 143.14 | 10033-41 1-4-07 |             | (003353) 144,10 |           | 10033431 164-04 | 10033541 144-15 |            | 10033611 143.19 | 1003304) 144.14 |            | 10033741 144-73 |           | 10033551 144-12 | (603389) 144.33 |           | 10033811 144.28 | 10033521 145-01 | (103373) 145.03 |
| 106 10*741 | 143.01          | 14.00           | 145.04.541      | 143.06 54       | Je >1.5.1       | 43-14 464       | 144.01 350     | 144.04 170      | 30.11           | 144.C7 4.00 | 144.04          | 102 31.22 | 36+ 11.43       | .1              | lumily and | 144.10 467      | 144.16          | 144-14 400 | .,              | 14.23 408 | 144.27 403      | 14.3.           | 144.33 20 | 144.34 410      | 145.03          | 145.005         |
| 10033103   | (1,5327)        | 16755601        | 141223171       | 100332.1        | 14282241        | 11053011        | () cecios      | (caccan)        | 10003403        | 14456001    | (Tegin)         | (146,44)  | ( retron)       | (1003357)       | (100354)   | teast of        | (Interior)      | (vostov)   | 17185001        | (4) * (7) | toussout        | (143,564)       | (1003384) | 10455401        | (1463343)       | 1003344)        |

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| (avccw)    | 145.07   |          |      | 10034031 145.00 | 145.09     |                 |         |                                    |          |
| 15005001   | ***      | 3        |      |                 |            |                 |         |                                    |          |
| 0401       | 145.10   | 17,      |      | 280             | 260 141.05 |                 |         |                                    |          |
| 12005001   | 145.1.   | 3        |      | fuca304) 141.25 | 141.25     | 1003309) 141.28 | 97:     |                                    |          |
| 12125001   | 01-6-1   |          |      | (063-50)        | 145.30     |                 |         |                                    |          |
| 7711       | 145.14   |          |      | 106%8001        | 145.29     |                 |         |                                    |          |
| tuckenut   | 33.641   |          |      | 10034501        | 145.28     |                 |         |                                    |          |
| (useson)   | 22.64    | 4        |      |                 |            |                 |         |                                    |          |
| 11chem)    | 46.344   | 1        |      | 1003410) 145-14 | 145.14     |                 |         |                                    |          |
| 1: (*! 2)  | 170.00.  |          |      | 10034581 146.04 | 140.04     |                 |         |                                    |          |
| 11034341   | 50-3-4   | ,        |      |                 |            |                 |         |                                    |          |
| [40407]    | 140.00   | ^        |      | (003451) 145.31 | 145.31     |                 |         |                                    |          |
| 10.3001    | 346.341  |          |      | (OU3401) 146.09 | 146.09     |                 |         |                                    |          |
| (topico)   | 1-0-1    | J        |      |                 |            |                 |         |                                    |          |
| 100,000    | *10.004  |          |      | 10034011 140.07 | 140.07     |                 |         |                                    |          |
| (003464)   | imi      |          |      | 10034641        | 146.36     |                 |         |                                    |          |
| (Cu+t 0)   | 140.13   |          |      | (484509)        | 146.35     |                 |         |                                    |          |
| toope not  | 1.0.1.   |          |      | (065464) 146.34 | 146.34     |                 |         |                                    |          |
| ((())      | 146.15   |          |      | (063464)        | 146.33     |                 |         |                                    |          |
| (103401)   | 146.10   |          |      | (497500)        | 146.32     |                 |         |                                    |          |
| 1,740071   | 146.17   |          |      | 10034641        | 146.31     |                 |         |                                    |          |
| totaeto)   | 140.15   |          |      | 1003484)        | 146.30     |                 |         |                                    |          |
| (1745-1)   | 140.1    |          |      | (003484)        | 146.29     |                 |         |                                    |          |
| [+246]     | 1.0.20   | ~        |      | (1003477)       | 146.25     |                 |         |                                    |          |
| (1.3446.)  | 1.7.60   |          |      | (1003495)       | 147.05     |                 |         |                                    |          |
| (44450)    | 147.05   | <u>.</u> |      |                 |            |                 |         |                                    |          |
| tenesont   | 147.10   | 3        |      | 1003510) 147.18 | 147.18     |                 |         |                                    |          |
| (And Enn)  | 147.30   |          |      | 10035081 147.14 | 147.14     |                 |         |                                    |          |
| (utseun)   | 147.14   |          |      | 1003504) 147.16 | 1+7.16     |                 |         |                                    |          |
| 11160001   | 1.7.15   | 7        |      | (1003500)       | 147.13     |                 |         |                                    |          |
| 10035153   | 146.63   | ,        |      | (003511) 147.19 | 147.19     |                 |         |                                    |          |
| (1)756 (1) | 126.05   | 25       |      | (+15600)        | 147.20     |                 |         |                                    |          |
| (176501)   | 146.00   | 3,       |      | 10035161        | 148.02     |                 |         |                                    |          |
| (10355.01) | 11.201   |          |      | (623520)        | 148.12     |                 |         |                                    |          |
| (450800)   | 1-8-12   | 434      |      |                 |            |                 |         |                                    |          |
|            |          |          |      |                 |            |                 |         |                                    |          |

LHANT FILLE - NUN-PAUCEUURAL STATEMENTS

LIMAT THEFT - CULPUITINE NUMBERS

| fuccess 1 bosof number | 150401 | NIMI IN | 1405 1001       | 4-28.54 | tuul3641 42,32-X (001371) 43,01-X | *3.01-X |  |
|------------------------|--------|---------|-----------------|---------|-----------------------------------|---------|--|
| (0015+51 (500)         | 150.03 |         | 1003555 150.11  | 150.11  |                                   |         |  |
| treatest freates toa   | 10.00  | 32      | 100,051 156,001 | 150.09  |                                   |         |  |
| tourbett troub los     | 150.05 | i top   | 16435511 156.68 | 150.08  |                                   |         |  |
| tous seed thouse toh   | 150,00 | 401     | (003545) 150,03 | 150.03  | 10035+71 150.04                   | 150.04  |  |
| out livel teterus      | 150,41 | 700     |                 |         |                                   |         |  |
| 0.0 51.951 January 200 | 126.13 | 3       | 10033441 150.00 | 190.06  | 10.051 150.07                     | 190-01  |  |

|                 |                    |                    |                 |                 |                   |                    |                    |                   |                 |                    | 10034481 147-001   |
|-----------------|--------------------|--------------------|-----------------|-----------------|-------------------|--------------------|--------------------|-------------------|-----------------|--------------------|--------------------|
| 20020           |                    | 147.18             | 147.14          | 1.7.10          | 147.13            | 147.19             | 147.20             | 148.02            | 148.12          |                    | 146.37             |
| CO:461 [649(00) |                    | 147.18             | 10035081 147.14 | 10035041 147-16 | 10035071 147-13   | (003511) 147-19    | 1003514) 147-20    | 10035161 148.02   | 1003529) 148-12 |                    | (003485) 146.37    |
|                 | :                  | 3                  |                 |                 | 7                 | ;                  | 7,                 | 3                 |                 | 425                | •                  |
| 147.63          | 1.7.05             | 147-10             | 1.1.10          | 1.7.1           | 171               | 140.01             | 1+6.05             | 746.00            | 41.341          | 1+8-12             | 146.13             |
| 10034dE1 147.63 | thursday levels le | or of-fel touceout | touspark twitte | 1.7.1           | 1+ 41.1+1 tilccom | 10035151 140.01 4V | 76 60*2*1 (076610) | ne 201941 (17ctm) | 10035.61 148.81 | 424 51.8+1 145424) | cl Ei.ab. tocceous |

LMANT TITLE - NUN-PALCEDURAL STATEMENTS

#### Crant lifts - Suckediths adminia.\*)

| fuccost 150.01 NUNCIN | 10.061 | NUNL IN | 1401304)         | (w1369) +2.32-X | 10013711 43.01-X |  |
|-----------------------|--------|---------|------------------|-----------------|------------------|--|
| tu-151 150-03         | 150.03 |         | 1003555 150-11   | 1150.11         |                  |  |
| terrated the total    | 150.64 | 105     | 10035523 150.09  | 150.09          |                  |  |
| 401 60.061 15-65.01)  | 150.05 | 3       | 160,3551) 150,68 | 156.68          |                  |  |
| tou south thecton     | 150.00 | 105     | (003545) 150.03  | 150.03          | 10035471 150.04  |  |
| 001 11-061 (ceeeuu)   | 150-11 | 100     |                  |                 |                  |  |
| Out Standt (Teasing)  | 150.13 | 970     | (cu3549) 150.06  | 150.06          | 10035501 150-07  |  |

LPAKI IIILL - NUN-PRUGEDURAL STATEMENTS

### CHANT HILL - SUSKULTINE MUDETIXIN, XUUT!

| (cuspes) 152-cl HWUET | 152.01 | Hille T    | (196190)        | 43.21-X          | (001341) 43.21-X (001343) 43.23-X | 43.23-X |
|-----------------------|--------|------------|-----------------|------------------|-----------------------------------|---------|
| (1003501)             | 50.501 |            | 10033661 152.06 | 152.06           |                                   |         |
| (wasoo) 152.44 20     | 152.04 | <i>2</i> 0 |                 |                  |                                   |         |
| 10035661 152.06       | 154.66 |            | (003566) 152.04 | 152.04           |                                   |         |
| plussort 152.07 FAUET | 154.07 | FWUET      | 10013451        | (001345) 43-25-X | (001347) 43.27-X                  | 43.27-X |
| \$ 10035721 152,10 4G | 152,10 | 94         |                 |                  |                                   |         |

| PAGE /80X1                         |                  |                  |         |                 |                  |                 |           |                 |                 |                 |                  |                  |          |                 |                 |                  |             |                 |                  |          |                 |                 |                  |                 |          |                 |                 |                 |
|------------------------------------|------------------|------------------|---------|-----------------|------------------|-----------------|-----------|-----------------|-----------------|-----------------|------------------|------------------|----------|-----------------|-----------------|------------------|-------------|-----------------|------------------|----------|-----------------|-----------------|------------------|-----------------|----------|-----------------|-----------------|-----------------|
| ISOURCE SENUENCE NO. AND PAGE/BOXI |                  |                  |         |                 |                  |                 |           |                 |                 | 01.521 (972600) |                  |                  |          |                 |                 |                  |             |                 |                  |          |                 |                 |                  |                 |          |                 |                 | (003615) 153.17 |
|                                    |                  | 43.31-X          |         |                 | 4-01-6+          |                 |           |                 |                 | 152.11          | 45.28-X          |                  |          |                 |                 | 40.01-X          |             |                 | 46.05-X          |          |                 |                 | 45-24-X          |                 |          |                 | 154.00          | 153.14          |
| REFERENCES                         |                  | (1001401)        |         |                 | (1001447)        |                 |           |                 |                 | (003573) 152-11 | (467100)         |                  |          |                 |                 | (001463)         |             |                 | (1001467)        |          |                 |                 | (001455)         |                 |          |                 | 10036221 154.00 | 1003604) 153.14 |
|                                    | (10035721 152.11 | (001344) 43.24-X |         | 10035781 152.16 | (001445) 45.14-X | 10035881 152,23 |           | 100358-1 152.20 | (663500) 157.21 | 10035671 152,06 | (UU1457) 45.26-X | (1003602) 153,07 |          | 10035761 153.04 | 10035001 153.05 | tuulsell 45.30-x |             | 1603008) 153.12 | [col465] 46.03-K | ٠.       | 10036143 153.17 | 10036201 154.05 | (UU1+53) 45,22-X | fousb2b) 154.08 |          | 10030203 154.05 | (603624) 154.01 | 10636631 153.07 |
| X NAME                             |                  | Scot 1           | 00      |                 | mL1M             |                 | 1.3       | 79              | د د             | 001             | 1 HWUL T         |                  | ₹.       | 3.5             | ) <b>(</b>      | Irebil           | ž           |                 | 1 series 1       | 70       |                 | <b>,</b>        | IMLIM            |                 | 7        | 4.3             | <b>3</b>        | 7,00            |
| PACE/BUX                           | 45.24            | 152.12           | 152.15  | 452.13          | 154.17           | 15              | 15(1      | 156.26          | 62.061          | *****           | 10.00.           | 10.00            | 150.65   | 3,4764          | 100001          | 30.00            | 115.51      | 1111            | 5                | 155010   | 15.00           | 154.01          | 154.66           | 124.05          | 154.00   | 154.67          | 154.08          | 154.64          |
| taku Iu                            | 3. (wis) 2.      | (45cm)           | (4/5cm) | (4,35/4)        | Lucson           | ( nesson)       | (unation) | 17.956.91       | (w.35cm)        | ( negeon)       | (casena)         | luctor!          | [443634] | 14-3001)        | 1003500.1       | to seuth         | ( on sent ) | 1 1797, 1       | 1: 30.11         | 1-1261-1 | 1               | 145,367,331     | 110001           | 1020511         | 11795001 | 10205001        | (uzeron)        | 11707011        |
| -1                                 |                  |                  |         |                 |                  |                 |           |                 |                 |                 |                  |                  |          |                 |                 |                  |             |                 |                  |          |                 |                 |                  |                 |          |                 |                 |                 |

AUTOFLOW CHART SET - FMU/SCL

SABLE UF CUNTENTS AND REFERENCES

OE/11/30

COME FIFTE - PUN-PAULE UDAR STATEMENT.

CHART FILL - SULMEDUTINE ANTINTINPEBBIT, ANTP, COEF

| (uel34ul 42.05-K (001342) 42.07-K | 10036453 156.04    | 10030401 150.01     | 10030761 150.17 |                     |   |
|-----------------------------------|--------------------|---------------------|-----------------|---------------------|---|
| ANIINI                            | ì                  | 36                  |                 | 100                 |   |
| 10.061                            | 370.00             | 126.67              | 150-11          | 150.17              |   |
| INJUST 130,01 ANTINT              | focusery traine wi | turs654.1 1564U7 50 | funition 15c-f1 | 10016/81 156-17 100 | 1 |

Chan I HILL - NUM-PRULEDURAL STATEMENTS

COART TILLS - SUBRUCITAL DETICARS

1003812} lel.in-x (004675) 206.22-X (004482) 210.05-X (UU-483) 210.07-x (Uulthut 34.15-X (UC4767) 203.1U-X (UU46Ul) 203.23-X (001325) 41.21-X (002247) 80.07-X 10037091 158.03 (UU1323) 41.19-X 10037091 198.01 freshing Death before toustill absoca utige toustons thered bell 01 48.841 Leaffer

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| 3-X  |                                   | 2-x (004482   |                  |                 |                    | 5-X  |                    |                 |                 |                 |                 |                   |                   |                  |
|--|-----------------------------------|---|------------------|-----------------|--------------------|--|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|------------------|
| 10044011 203.2                                       |                                   | (004ef5) 206.22-X (004982) 210.05-X (004983) 210.67-x |                  |                 |                    | (WU4662) 203+2                                       |                    |                 |                 |                 |                 |                   |                   |                  |
| (001254) 54-15-X (004767) 205-10-X (004801) 203-25-X | (0013251 41.21-X (002247) 60.07-X | 10038121 161.14-8                                     | (003709) 158.03  |                 |                    | [UG2248] 80.10-X [UG4790] 203.12-X [UG4802] 203.25-X |                    |                 |                 |                 |                 |                   |                   |                  |
| X-41.  | x-1-2-1+                          | tuciscs) 41.19-x                                      | 10.841           | 156.10          |                    | 4-01.08  |                    | 156.15          | 156.21          | 156.23          | 159.17          | 159.16            | 2150 159.07       | 159.14           |
| ź  | ē                                 | 00.13233  | 10.821 [26,500]  | 14037211 156.10 |                    | (942.790)  |                    | (UU3736) 158-15 | 156.21          | (UUST37) 156.23 | 11.061 1857600) | 1003774) 159.16   | 2150              | (1003766) 159.14 |
| re (047100)  | retool                            | -   |                  |                 |                    |  |                    |                 |                 |                 |                 |                   |                   |                  |
|  |                                   |   | ==               |                 | ž                  | UFINCE   | 3                  | 20              |                 |                 |                 | 7                 | 2                 |                  |
| re location) that the foreign twenty of              | tecan in these offer (0013)       | t datata absace orther                                | trustes secon to | feasing poses   | 1003741) 150410 5c | (1.5724) Itanto urince                               | luvstary therab hh | twasts tack to  | 62.461 (187cou) | 1003736) 154.01 | 10037391 159.0c | 17 20.4ct 1725.md | UN37581 159-10 70 | 11.451 (00760)   |

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| (W3776) 157.14 75    | 154.14 | 22             |                 |
| 00 //. WC1 (1476.44) | 12451  | q <sub>D</sub> | 2410 159.18     |

### THAKE THEE - NEW-PROCEDURAL STATEMENTS

| X.C. (X.Y.A.b) |
|----------------|
| SUBSCUTTINE    |
| 11111          |
| CHANT          |

| HOUSTYLD TOLOCY RECF    | 101.61  | k c c   | (1697E)          | 40.07-X          | (uc)4691 46.67-X (004644) 198.12-X |  |
|-------------------------|---------|---------|------------------|------------------|------------------------------------|--|
| tous they solved KELFTE | tol eve | KELF TP | (10.14.11)       | 10014711 46.09-X |                                    |  |
| of so. tol toward       | 161.04  | 10      | 10037431 161.01  | 10.101           |                                    |  |
| terstown totals         | 101.13  | 2       | 10037491 161.06  | 161.06           |                                    |  |
| terston touster!        | 11.101  |         | (1013810) 161.12 | 161.12           |                                    |  |
| to seattle tolest? Jon  | 10101   | 707     |                  |                  |                                    |  |
| on the tot to too too   | 101.17  | (10)    | (w3813) 161.15   | 161.15           |                                    |  |

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| 10038841 165.09-X    |                 |                    |                    |                     |                 |                     |                     |                 |                  |
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| 1003884)             |                 |                    |                    |                     |                 |                     |                     |                 |                  |
| (001475) 46.13-X     | 163.10          | 163.05             | 163.06             |                     | 163.19          | 163.14              | 163.15              |                 | 163.11           |
| 1001+151             | (003839) 163.10 | (003831) 163.05    | 10036331 163.06    |                     | 10038571 163.19 | 1003846) 163.14     | 10038481 163.15     |                 | 1063840) 163.11  |
| FXFKH                |                 | 100                | 3.                 | 200                 |                 | 356                 | 351                 | 200             | 25.0             |
| 10.001               | 103.64          | 103.07             | 163.08             | 103.16              | 163.14          | 103.10              | 105.17              | 105.15          | 103.601          |
| (water) tostol PXFRM | 10,3430) 103,64 | tousest tessor luu | twatest leaders 44 | (vusest) les.16 2vu | fivited toster  | frastate tosate aso | lucation lossly 351 | tractiff toseth | forseign teaser) |
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| (001473) 46.11-X        | X-51-94 (117+100)      | 165.01             | 165.06           | 105.07             |
|-------------------------|------------------------|--------------------|------------------|--------------------|
| (001413)                | (1001477)              | 10.38721 165.01    | 1003879) 165.06  | 10038619 165.07    |
| CCENSF                  | CLENCM                 | 01                 | 97               | 30                 |
| 10.041                  | 105.02                 | 105.04             | 40.04            | 105.06             |
| tour 6711 tes of CCENSE | (cuse7s) toseud Chencm | Ut +u.cal (cfacus) | US 40.cd; tabted | ut Postal (Pastau) |

 (u.bers)
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 (004834) 163.10
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 (004383) 163.05

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 VY
 (004383) 163.05

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 105.10
 2VV
 (004387) 163.16

 (uv.bers)
 105.10
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 (004384) 163.16

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 1004384) 163.15

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 (004884) 163.13

CHART TEFEE - NUM-PRUCEDURAL STATEMENTS

CHART TILLS - SUBREUFINE CUENSFIXF, YF.)

CHANT TITLE - NCA-PROCEUDRAL STATEMENTS

CHAKT HILL - SUCKUUTINE RNUAKYTRNUT

K-11-0+ 10921001 X-60\*0+ 18121001 10013295 +1.25-K 10013271 41.23-X 10013311 41.27-X 10038471 167.03 H 167.10 1003914) 167.16 (tostab) telest knusky funitaria tolius lu finishis lolius aluknu tousynus 107-12 AURNUC K 167-10 20 (103414) 107.10 +0 \$1.101 121PEWOI Cousting 107.02 \*3.501 A (1,03,507)

Lynns 1111c - num-priceounal statements

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| CHART TIT | Lt - 200 | KUUTINE   | CUMDISCUATAIN,                         | XF)       |          |             |                 |             |        |          |
| L         | 104.01   | CUMD15    | (001266)                               | 39.29-X   | 10012681 | 34.31-7     |                 |             |        |          |
| ·         | 164.04   | 20        |  |           |          |             |                 |             |        |          |
| L         | 104.64   |           | ί                                      | 169.05    |          |             |                 |             |        |          |
| L         | 104.00   | CUM2      |  |           |          |             |                 |             |        |          |
|           | 164.06   |           | ί                                      | 169.05    |          |             |                 |             |        |          |
|           | 16.401   |           |  | 169.17    |          |             |                 |             |        |          |
|           | 109.14   |           | c                                      | 169.12    |          |             |                 |             |        |          |
|           | 104.10   |           |  |           |          |             |                 |             |        |          |
|           | 104.10   |           | c                                      | 169.14    |          |             |                 |             |        |          |
|           |          |           | (001270)                               |           | (001272) | 40-04-X     |                 |             |        |          |
|           | 170.04   | 001007    |  | 170.02    | 10011111 |             |                 |             |        |          |
|           | 170.07   |           |  | 170.12    |          |             |                 |             |        |          |
|           | 1/0.04   |           | •                                      | 110.12    |          |             |                 |             |        |          |
|           |          |           |  |           |          |             |                 |             |        |          |
|           | 170.04   |           | C                                      | 170.10    |          |             |                 |             |        |          |
|           | 170.11   |           |  |           |          |             |                 |             |        |          |
|           | 170.14   |           | (001274)                               |           | (001276) | 40.07-X     |                 |             |        |          |
|           |          |           | 10039801                               |           |          |             |                 |             |        |          |
|           | 170.22   |           |  | 171.03    |          |             |                 |             |        |          |
|           | 170.24   |           | c                                      | 171.01    |          |             |                 |             |        |          |
|           | 171.0:   |           |  |           |          |             |                 |             |        |          |
| L         | 171.03   | 100       |  |           |          |             |                 |             |        |          |
| L         | 171.04   | 200       | c                                      | 170.13    |          |             |                 |             |        |          |
| ·         | 171.06   |           | (004600)                               | 171.06    |          |             |                 |             |        |          |
| L         | 171.09   |           | c                                      | 171.10    |          |             |                 |             |        |          |
| Ĺ         | 174.40   | 300       |  |           |          |             |                 |             |        |          |
|           |          |           | RTUPDELX.Y.M.                          | <b>P)</b> |          |             |                 |             |        |          |
|           | 173.01   | D TIMPIAN | (001218)                               | 38 - 00-X |          |             |                 |             |        |          |
|           | 173.02   |           | (001228)                               |           |          |             |                 |             |        |          |
|           |          |           | (061230)                               |           |          |             |                 |             |        |          |
|           | 173.60   |           |  |           |          |             |                 |             |        |          |
|           | 173.00   |           |  |           |          |             |                 |             |        |          |
|           | 175.10   |           |  |           | 1001226) | 38.17-Y     |                 |             |        |          |
|           | 175.10   |           |  | 173.01    |          | 173.03      | R 173.05        |             | 173.07 | R 173.0v |
|           |          | 10        |  |           | •        | 173.03      | k 173.05        | •           | 173.07 | # 173.04 |
| (004042)  |          |           |  | 173.15    |          |             |                 |             |        |          |
|           | 173.20   |           |  | 174.10    |          |             |                 |             |        |          |
|           | 175.21   |           | 1004049)                               | -         |          |             |                 |             |        |          |
|           | 173.26   |           |  |           |          |             |                 |             |        |          |
|           | 1701     |           |  | 173.22    | _        |             |                 |             |        |          |
|           | 174.02   | 50        |  | 173.21    | R        | 173.26      |                 |             |        |          |
| •         | 174.00   |           |  | 174.04    |          |             |                 |             |        |          |
|           | 1/4.04   |           | (00+056)                               |           |          |             |                 |             |        |          |
|           | 1710     |           |  | 174.06    |          |             |                 |             |        |          |
| (unous)   | =        | 200       | (004042)                               |           |          |             |                 |             |        |          |
| [60+00]   |          |           | 10040623                               | 174.14    |          |             |                 |             |        |          |
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| (uuquas)  |          |           | (004066)                               | 174.18    |          |             |                 |             |        |          |
| 1000001   |          | 220       |  |           |          |             |                 |             |        |          |
| (004070)  |          |           | (004077)                               |           |          |             |                 |             |        |          |
| (004073)  |          |           | 10040721                               |           |          |             |                 |             |        |          |
| k.        | 174.21   |           | (004074)                               | 174.25    |          |             |                 |             |        |          |
| (00+076)  | 174.28   | 225       | 10040731                               | 174.24    |          |             |                 |             |        |          |
| 106-077)  | 174.24   | 2 30      |  |           | 0 13     |             |                 |             |        |          |

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UMANT HILL - NUN-PRICEGURAL STATEMENTS

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| 1 178.0%    |             |           |             |
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| 1 178.07    |             |           | 1 178.08    |
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| 1 175.00 10 | 1 178.67 20 | 17tout 3t | 1 176.10 50 |
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| SCANNR                 |                 | 91       |                 |                   | ž                  | 70              |                 | 2                  |                 | 95                 | 69                              | 18              |                 | 3                  | ;                  | ÷                  |
| 10.001                 | 190.04          | 140.65   | loc.ch          | 100.12            | 164.15             | 140.17          | 1               | 101.04             | 181.04          | 101.16             | 101-24 65                       | 162.00          | 182.04          | 147.14             | 102.10             | 162.24             |
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| 2                    |                 | 3000            |
| 10. 10. 10. 10. OLGI | 184.00          | 19**01 3000     |
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| 1.17 70            | 7.7             | er +0.1            | 90-1             | 1.16 82            | 1.24 65            | 2.00 B7         | 2.05            | 2.12 80            | 2.10 43            | 25° 42° 51         |
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| + (044326) 186.08     | 186.08 |       | (004337) 187.12 | 187.12                           |          |       |
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|                       | \$050       | 7F72        | 4180        | 9530        |        | 2360        | 2330          | 2380        | 2610        | 2510         | 2690         | 2010            | 2610        | 2790        | 2730        |        | 2800        |  |
|                       | _           | 302         | 303         | 305         | 320    | ,           | 20            | \$1         |             |              | 356          | 125             | *05         | 450         | 3,          | Sev.   | 301         |  |
|                       | 105.04      | 195.08      | 145.11 303  | 1.541       | 145.15 | 145.10      | 43.541 JY5.24 | 10.041      | 1.6.05      | 25.cu 196.0v | 746. 11. 354 | Zucu 19c.is 4ul | 146.15      | 2130 190.1C | 146.15      | 140.20 | 146.41 301  |  |
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|                 |                |                         |                |                 |                 | 10046451 198.13 (004663) 199.03 |                  |                 |                  |                 |                 |                    |                  |                      |                 |                 |                 |                 |                    |                 |
|-----------------|----------------|-------------------------|----------------|-----------------|-----------------|---------------------------------|------------------|-----------------|------------------|-----------------|-----------------|--------------------|------------------|----------------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|
| 100.05          |                | 47.11-x                 |                | 198.11          | 60.861          | 10.001                          | 500.04           | 198.08          | 199.08           |                 | 199.09          | 100.04             | 149.17           |                      | 109.18          | 199.20          | 199.13          | 200-10          |                    | 80.005          |
| (004656) 198,05 |                | x-11-74 (202100)        |                | 10046431 198.11 | 60"861 (099900) | 10.44501 198.01                 | 10046881 200.04  | 1004000 198.08  | 10046681 199,001 |                 | 10040041 100.00 | 100-664) 199.04    | (1004679) 199.17 |                      | 1004680) 199.18 | (004681) 199.20 | 10046731 199.13 | 10046433 200-30 |                    | 10046421 200.08 |
|                 | 26             | TSRPAT                  | 02             | 30              | 460             | 326                             | 931              | 3               |                  | 200             |                 | **                 |                  | ntot                 |                 |                 | 1001            |                 | >00                |                 |
| 196.04          | 40.541         | 146.04                  | 178-16         | 148.13          | 176.17          | 176.12                          | 144.01           | 156.0           | 36u 156.67       | 146.08          | 144.11          | 154.14             | 144.16           | 144.17               | 100.20          | 1~4.22          | 1001 1001       | 100.007         | ,00.1L             | 3,000.10        |
| 1004031 196.04  | (U+654) 176,US | tunestol live.or TSRPAT | 1040411 148-10 | 1040401         | Tinger   Inch!  | two702) 146.16 700              | [01-44] [149-00] | 1000001 1000001 | 360              | (tracks) 146.08 | toweld 199.11   | turbles legals see | (UM-077) 144.1C  | 100-674) 144-17 1010 | (10-001) 144-20 | 11440421 144.22 | 1120+301        | 10-00/ (140-00) | fourths) coult you | towers terminal |

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| success let.or TSRPAT | 146,04      | TSAPAT | 1001565) 47.11-K | 47.11-E                                  |                 |                  |    |
| 10040011 148.16 20    | 148.16      | 90     |                  |  |                 |                  |    |
| 1000051 148.13 30     | 148.13      | 36     | 10046431 198.11  | 198.11                                   |                 |                  |    |
| temotel langual       | 1100.17     | ţ      | 10046401 198.09  | 108.00                                   |                 |                  |    |
| troughly labout Too   | 146.16      | 3      | 1000001 1000001  |  | 10046451 198-13 | (0040031 160-03) | 63 |
| aut torres traces     | 122203      | 7.1    | 100-6881 200,04  | 200,004                                  |                 |                  |    |
| (unabel 146.04 130    | 5.5.        | 3      | 10044401         | 198.06                                   |                 |                  |    |
| 796                   | 360 17.67   |        | 10046681 199,08  | 199.04                                   |                 |                  |    |
| (Umobal 194.08 260    | 100.00      | 260    |                  |  |                 |                  |    |
| Invaled Ivvill        | 11.441      |        | 10040491 199,00  | 199.09                                   |                 |                  |    |
| the state tetarne     | 144.14      | \$     | 100-6643 199-04  | 199.04                                   |                 |                  |    |
| unecli) ivelu         | 144.16      |        | 10046791 199.17  | 199.17                                   |                 |                  |    |
| plus treest total     | 144.17      | noto   |                  |  |                 |                  |    |
| (100+00)              | 13.20       |        | fuctedus 199.18  | 100.18                                   |                 |                  |    |
| [10+0042] 1+4.22      | 144.22      |        | (004641) 199.20  | 199.20                                   |                 |                  |    |
| (1,200.31)            | 200.63 1061 | 1901   | (004073) 199.13  | 199.13                                   |                 |                  |    |
| (140404)              | 200.002     |        | 10046431 200-10  | \$00.10                                  |                 |                  |    |
| fumewall 200-16 you   | 206.16      | 3      |                  |  |                 |                  |    |
| 10000931 200-10       | 200-10      |        | 1004642) 200-08  | 200-08                                   |                 |                  |    |

CMAKI 1116c - MCN-PRUCEDURAL STATEMENTS

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| 7          | avi 202.01 CGEN     | CCEN.    | (001411) 44.09-X | X-60.44     |                 |
|------------|---------------------|----------|------------------|-------------|-----------------|
| 105+1301   | 202.00              | <b>9</b> | (004725) 202-03  | 202-03      |                 |
| 100        | twa7201 202,30 75   | 7.5      | 1004731) 202.67  | 202.67      |                 |
| 188        | 10047384 20c.12     |          | 1064739) 202.13  | 202.13      |                 |
| 145        | (UU4739) 202.13 8U  | 280      |                  |             |                 |
| (B92 9m)   | 204.25 261          | 192      | (004752) 202-19  | 202.19      |                 |
| 31 .       | 100-8231 202.25 862 | 862      | 1110             | 1110 202.20 | 10047721 202.28 |
| 781        | (w4778) 203.u3      |          | 10047951 203.16  | 203.16      |                 |
| 1 1004784) | 203.07              |          | 10047823 203.04  | 203.04      |                 |
|            | 203-15 102 NO. 151  | 151      | 100-3541 303 00  | 90 106      |                 |

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CHANT FITTE - SUBRUUTINE TSARV(X+Y-XR+VR++)

| (6014131 44.11-X | 10046451 198.13-X | 10.00 200.01 | 10048541 206.07 | 100-8541 206-11 |           | 1982 206.14 | 1681 206.24 | 1970 207,01 | (004899) 207.06 |          | 2071 207.07 | 1476 207,01 | 2106 207.12 | 2107 207.14 | 2111 207.17 | - 2112 207.19 | 2113 207.21 | 2130 208.07 | 2121 207.26 | 2122 208.01 | 2123 208.03 |        | 2102 201.10 | 2131 208.08 | (001415) 44.13-X |          | 2135 208.14 | (00+4+5) 208.20 |
|------------------|-------------------|--------------|-----------------|-----------------|-----------|-------------|-------------|-------------|-----------------|----------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|------------------|----------|-------------|-----------------|
| I SAR Y          | 1 SARM            | 2            |                 |                 | 3         | 777         |             | 101         |                 | 340      | 919         | 144         |             |             |             |               |             |             |             |             |             | 330    | 350         |             | T SAK Y 1        | TSARMI   | 2           |                 |
| 206.002          | kue suk           | 40007        | ******          | 400.10          | 110001    | 400-16      | 12.002      | 201.62      | 207.63          | 207.00   | 207.16      | 11.,07      | 207-14      | 267.10      | *1-1-2      | 207.21        | 201.63      | 207.25      | 10.40%      | £0.401      | \$0.407     | 100.07 | /06.11      | 200.11      | , 06.12          | /ub.13   | 711.107     | 41-407          |
| Joor             | Londmon           | 1073         | [CCREATY]       | 1446561         | 1,004 654 | 77.7        | 100-561)    | 1460        | [[14847]        | (100000) | 2101        | 2303        | 1017        | 4012        | 7117        | 2113          | •111•       | 2110        | 7717        | 21.3        | 21.24       | 2130   | 2132        | 21.52       | 10044301         | 11000371 | (24440)     | [60.50          |

| 2106 207.12 | 2107 207.14 | 711 207.17 | - 2112 207.19 | 2113 207.21 | 2130 208.07 | 2121 207.26 | 2122 208.01 | 4123 208.03 |        | 2102 207.10 | 2131 208.08 | (1001415) 44.13-X |          | 2135 206.14 | (604945) 208.20 |          | (004448) 208.22 |          | (004949) 208.24 | (004663) 199.03-X | (004952) 208,28 | (004956) 209.02 | 10046401 210-19 | (004458) 209.05 | 2260 209.08 | 2290 209.10 | 2810 209.13 |
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|             |             |            |               |             |             |             |             |             | 330    | 350         |             | TSARY             | TSARMI   | <b>3</b>    |                 | <b>^</b> |                 | TSARY    |                 | TSARME            | £ (5)           |                 | *               |                 |             |             |             |
| \$1.fuz     | 267.16      | *1.1.      | 207.21        | 207.23      | 207.25      | 10.405      | £0. 907     | 200.002     | £0.402 | 11.407      | 205.11      | . 46.12           | £06.13   | cut.17      | 20E-14          | 10t . 2U | ,,,,,           | 206.26   | 40P-40          | 108.27            | 208.24          | 204.04          | 200.07          | 204.07          | 205.10      | 20%-12      | 204.10      |
| 2107        | 770         | 2112       | 2113          | *17*        | 2110        | 4122        | 2123        | 21.24       | 2130   | 2132        | 21.52       | (orange)          | 17644001 | 10044463    | 1000            | (4442)   | [4+4+0)]        | 1964-001 | 10044001        | [16440]           | (005118)        | 17644971        | (46440)         | (104454)        | 2290        | 2805        | 100~9081    |

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| (ne see t)    |            | 7.                               | (0051c+) 2      | 210.21<br>215.14 | (005050) 213,16  | 1005057) 213.17                    | (005047) 215.11 | (1005101) 215-13 |
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